Texas Commission on  **Environmental Quality**

Completeness/Administrative and Technical Evaluation Checklist RCRA Part B Application

Industrial and Hazardous Waste Permits Section Waste Permits Division

COMPLETENESS/ADMINISTRATIVE AND TECHNICAL EVALUATION CHECKLIST
RCRA PART B APPLICATION
(Industrial and Hazardous Waste Permits Section)

This checklist serves as a guideline for the Part B information requirements of 40 CFR Part 270 and 30 TAC §305 Subchapters C and D and 30 TAC §335. This checklist follows the format of Part B Hazardous Waste Application Forms and Instruction. Sections of the Part B which are shaded in grey in the checklist should be reviewed during the administrative review to determine if the information has been submitted. For portions which are not applicable mark the NA column.

FACILITY NAME: _____ LOCATION: _____

EPA I.D. NO.: _____ ISW REG. NO.:_____ PERMIT NO.: _____

TYPE OF APPLICATION: _____

DATE OF APPLICATION: _____ DATE APPLICATION RECEIVED _____

DATE REVISED PART B RECEIVED: _____

ADMINISTRATIVE REVIEW:_____

DATE ADMINISTRATIVELY COMPLETE: _____

ADMINISTRATIVE REVIEW BY:_____
PRINTED NAME

_____
SIGNATURE

SUPERVISOR: _____
PRINTED NAME

_____
SIGNATURE

TECHNICAL REVIEW:

DATE TECHNICALLY COMPLETE: _____

TECHNICAL REVIEW BY: _____
PRINTED NAME

_____
SIGNATURE

SUPERVISOR: _____
PRINTED NAME

_____
SIGNATURE

DATE FINANCIAL ASSURANCE SECTION OF APPLICATION SENT TO FINANCIAL ADMINISTRATION DIVISION: _____

Table of Contents

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*TO BE FILLED OUT BY APPLICANT*						
		NA	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
I. GENERAL INFORMATION:								
A. Applicant: Facility Operator	305.43, 305.45(a)(1), 270.10(a)(b)							
Name matches SOS database								
Address provided								
Telephone								
SWR, EPA I.D.								
Regulated Entity Number								
Customer Name and Reference Number								
Charter Number								
B. Owner	305.43 (b), 361.087 (TX Health & Safety Code)							
C. Facility Contact	305.45(a)							
D. Application Type and Facility Status	305.42, 305 subchapter D							
E. Facility Siting Summary								
1. 100-yr Floodplain	335.204(a)(1) 270.14(b)(11)(iii)							
2. Wetlands	335.204(a)(2)							
3.Critical Habitat	335.204(a)(8)							
4. Sole-source aquifer	335.204(a)(3)							
5. Regional aquifer	335.204(a)(4)							
6. New commercial HWM within 2 mi. of an established residence, church, school, day care etc. If yes, TCEQ will not issue a permit for this facility.	335.205(a)(2-5)							
7. In an area in which governing body and municipality has prohibited the processing of municipal HW and individual solid waste. If yes, is the ordinance or order submitted?	361.095, 361.096, 361.0961 (TX. Health & Safety Code)							
F. Wastewater and Stormwater Disposition: If yes, indicate existing or proposed discharge permit number.	30 TAC305(a)(7) WDW, TPDES, TCEQ							
G. Information required to provide notice:								
State officials list.	30 TAC 39.103(b)							
Local officials list.	30 TAC 39.103(c)							

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			Y	*N*	*Y*	*N*		
I. GENERAL INFORMATION:								
Adjacent Landowners List: Are landowners map and mailing list submitted in proper format (CD or Printed Labels, 30 addresses per/page in 3 columns of 10, USPS Machine Readable format)?	305.45(a)(6)(A-D)							
Is Bilingual Notice Required?								
H. Have they provided a current Core Data form?								
I. There must be an **o**riginal signature on application. Requires proof of authorization and notary seal.	305.44, 270.11							

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			Y	*N*	*Y*	*N*		
II. FACILITY SITING CRITERIA								
A. Is facility located or proposed to be located in:								
1. Wetlands? Is the source of information provided? If yes, the TCEQ shall not issue a permit for a new HW management facility or areal expansion per 335.205(a)(1)	335.204(a)(2), (b)(2), (c)(2), (d)(2), &/or (e)(2)							
2. Critical habitat should include a letter from Texas Parks and Wildlife Department? (If yes, Section V should include information to demonstrate the design, construction, and operational features of the facility will prevent adverse effects resulting from a release in such areas).	335.204(a)(8), (b)(10), (c)(9), (d)(9), &/or (e)(11)							
3. On the recharge zone of a sole-source aquifer? Is the source information provided? If yes, submit Section V information to demonstrate adequate secondary containment. Hazardous waste units such as landfills, land treatment facilities, surface impoundments and waste piles cannot be located on the recharge zone of a sole-source aquifer.	335.204(a)(3), (b)(3), (c)(3), (d)(3) , &/or (e)(3)							
4. In an area overlying a regional aquifer? Is the source of information provided? If facility overlies a regional aquifer, information should be provided either in Section V, to address the requirements of 335.204(a-e)(4)(B), or in Section VI, to address the requirements of 335.204(a-e)(4)(A).	335.204(a)(4), (b)(4), (c)(4), (d)(4), &/or (e)(4)							

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			Y	*N*	*Y*	*N*		
II. FACILITY SITING CRITERIA								
5. Areas where soil units(s) within 5 ft. of containment structure, or treatment zone that have unified soil classification of GW, GP, GM, GC, SW, SP, or SM, or hydraulic conductivity greater than 10^{-5} cm/sec? If the facility overlies soils meeting these characteristics, information should be provided either in Section V, to address the requirements of 335.204(5)(A) or Section VI, to address the requirements of 335.204(5)(B).	335.204(a)(5), (b)(5), (c)(5), (d)(5), &/or (e)(5)							
6. Areas of direct drainage within one mile of a lake at its maximum conservation pool level. Has verification of drainage information been provided?	335.204(a)(6), (b)(7), (c)(6), (d)(6), &/or (e)(8)							
7. Areas of geologic process, including but not limited to erosion, submergence, subsidence, faulting, karst formation, flooding in alluvial flood wash zones, meandering river bank cuttings, or earthquakes. Has verification of geologic process information been provided?	335.204(a)(7), (b)(8), (c)(7), (d)(7), &/or (e)(9)							
8. Within 30 feet of the upthrown side or 50 feet of the downtown side of the actual or conferred expression of a fault. Is the source of information provided?	335.204(a)(9), (b)(12), (c)(11), (d)(11), &/or (e)(13)							
B. Additional requirements for land treatment facilities.	335.204(b)							
1. Is the land treatment facility located or proposed to be located within 1000 ft. of an established residence, church, school, daycare center, etc.? If yes, TCEQ will not issue a permit for a new HW land treatment unit or areal expansion for an existing land treatment unit per 335.204(b)(6) and 335. 205(a)	335.204(b)(6)							
2.a. Is the land treatment facility located or proposed to be located within 1000 ft. of an area subject to coastal shoreline erosion which is protected by a barrier island or peninsula? If yes, Section V.F must include information to address the adverse effects.	335.204(b)(9)							
b. Is the land treatment facility located or proposed to be located within 5000 ft. of an area subject to coastal shoreline erosion which is unprotected by a barrier island or peninsula? If yes, Section V.F must include information to address the adverse effects.	335.204(b)(9)							
3. Is the land treatment facility located or proposed to be located on a barrier island or peninsula? If yes, permit will not be issued for a new hazardous waste land treatment unit or an areal expansion of an existing land treatment unit per 335.204(b)(11) and 335. 205(a)(1)	335.204(b)(11)							

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			Y	*N*	*Y*	*N*		
II. FACILITY SITING CRITERIA								
C. Additional requirements for Waste Piles	335.204(c)							
1. a. Is the waste pile located or proposed to be located within 1000 ft. of an area subject to active coastal shoreline erosion which is protected by a barrier island or peninsula? If yes, Section V.E must include information to address the adverse effects.	335.204(c)(8)							
b. Is the waste pile located or proposed to be located within 5000 ft. of an area subject to active coastal shoreline erosion which is unprotected by a barrier island or peninsula? If yes, Section V.E must include information to address the adverse effects.	335.204(c)(8)							
2. Is the waste pile located or proposed to be located on a barrier island or peninsula? If yes, permit will not be issued for a new hazardous waste pile or an areal expansion of an existing waste pile.	335.204(c)(10)							
D. Additional requirements for storage surface impoundments:	335.204(d)							
1.a. Is the storage surface impoundment located or proposed to be located within 1000 ft. of an area subject to active coastal shoreline erosion which is protected by a barrier island or peninsula? If yes, Section V.D must include information to address the adverse effects.	335.204(d)(8)							
b. Is the storage surface impoundment located or proposed to be located within 5000 ft. of an area subject to active shoreline erosion unprotected by a barrier island or peninsula? If yes, Section V.D must include information to address the adverse effects.	335.204(d)(8)							
2. Is the storage surface impoundment located or proposed to be located on a barrier island or peninsula? If yes, permit will not be issued for a new hazardous surface impoundment or an areal expansion of an existing surface impoundment.	335.204(d)(10)							
E. Additional requirements of landfills (and surface impoundments closed as landfills with waste in place):	335.204(e)							
1. Is the landfill located or proposed to be located within 1000 ft. established residence, school, church, school, daycare center, etc.? If yes, permit will not be issued for a new hazardous waste landfill unit or an areal expansion of an existing landfill unit.	335.204(e)(6)							

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			Y	*N*	*Y*	*N*		
II. FACILITY SITING CRITERIA								
2. Is the new commercial HW landfill proposed to be located in 100-yr floodplain? If yes, permit will not be issued for a new commercial hazardous waste landfill or an areal expansion of an existing landfill per 335.204(e)(7) and 335. 205(a)(1)	335.204(e)(7)							
3. a. Is the landfill located or proposed to be located within 1000 ft. of an area subject to active shoreline erosion protected by barrier island or peninsula? If yes, Section V.G must include information to address the adverse effects.	335.204(e)(10)							
b. Is the landfill located or proposed to be located within 5000 ft. of an area subject to active coastal shoreline unprotected by barrier island or peninsula? If yes, Section V.G must include information to address the adverse effects.	335.204(e)(10)							
4. Is the landfill located or proposed to be located on a barrier island or peninsula? If yes, permit will not be issued for a new hazardous waste landfill unit or an areal expansion of an existing landfill unit.	335.204(e)(12) 335.205(a)(1)							
F. Flooding: Are FIA maps and source of data included in the application?	270.14(b)(11)(iii) 305.50(a)(11)							
1. Is the facility located or proposed to be located within 100-yr Floodplain? If yes, complete II.F.2-4, providing supporting documentation. Note: For an application for a proposed hazardous waste management facility, aside from the flood plain maps prepared by FEMA, additional information may be necessary for a flood plain determination. If no, do not complete II.F.2-4.	270.14(b)(11)(iii)							
2. Is information provided defining the 100-year Flood levels.:	270.14(b)(11)(iii)							
3. Are Flood Protection devices or structures provided or proposed at the facility:	270.14(b)(11)(iv)							
a. If yes, submit Section V an engineering analysis to indicate the hydrodynamic and hydrostatic per 270.14(b)(11)(iv)(A), and	270.14(b)(11)(iv)							
b. Provide in Section V a plan and schedule for constructing flood protection devises per 270.14(b)(11)(iv)(B)	270.14(b)(11)(iv)							

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			Y	*N*	*Y*	*N*		
II. FACILITY SITING CRITERIA								
NOTE: Any landfill, storage/treatment facility, surface impoundment, waste pile, or land treatment unit within the 100-year floodplain must be designed, constructed, operated, and maintained to prevent physical transport of any hazardous waste by a 100-year flood event.	335.204(a)(1), (b)(1), (c)(1), (d)(1), &/or (e)(1)							
4. If the answer to Question II.F.3 is No, measures to remove wastes to safety before flooding occurs:	270.14(b)(11)(iv)(C)							
a. Timing of movement of wastes relative to flood levels	270.14(b)(11)(iv)(C)(1)							
b. Location to which wastes will be moved and a demonstration that these facilities will be eligible to receive hazardous waste	270.14(b)(11)(iv)(C)(2)							
c. Procedures and availability of equipment and personnel to be used	270.14(b)(11)(iv)(C)(3)							
d. Potential and prevention for accidental discharges of waste	270.14(b)(11)(iv)(C)(4)							
G. Additional information requirements								
1. For a new hazardous waste management facility provide a legible map of local land-use plans and major routes of travel covering at least 5 miles from the facility.	305.50(a)(10)(A) & (D)							
2. Provide a map showing the nearest established residence, schools, church, surface water body used for a public drinking water supply, etc	305.45(a)(6), 335.202, 335.204(a)(6), (b)(6) and (7), (c)(6), (d)(6), &/or (e)(6 and 8)							
3. For a new commercial HW management facility provide:	305.50(a)(12)(A)							
a. average number, gross weight, type and size of vehicles used to transport HW.	305.50(a)(12)(A)(i)							
b. major highways nearest the facility irrespective of distance.	305.50(a)(12)(A)(ii)							
c. identify public roadways within 2.5 mile radius from facility.	305.50(a)(12)(A)(iii)							
4. Are the name and location of HW facilities within 0.5 miles of new on-site HWM facility and quantity of HW generated or received annually at those facilities provided?	305.50(a)(10)(B-C)							

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			Y	*N*	*Y*	*N*		
II. FACILITY SITING CRITERIA								
5. Are the name and location of HW facilities within 1.0 mile of new commercial HWM facility, quantity of HW generated or received annually at those facilities provided?	305.50(a)(10)(B-C)							
6. For existing/proposed HW disposal units, documentation of deed recordation.	335.5, 270.14(b)(14)							
7. If a surface impoundment or landfill (including post-closure) is permitted, provide exposure information. This information will be considered separately from TCEQ application completeness determination	305.50(a)(8) 270.10(j)							
8. For a new HW management facility or a capacity expansion of an existing HW management facility, Section VI.A.1.a must be provided	305.50(a)(4)(D) 305.50(a)(10)(E)							

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			Y	*N*	*Y*	*N*		
III. FACILITY MANAGEMENT								
A. Compliance History and Applicant Experience:								
1. Are listings of all SW management sites in Texas owned, operated, or controlled by the applicant included in the application?	305.50(a)(2)							
2. For new commercial HW management facility, summary of the applicant's experience in HW management must be submitted.	305.50(a)(12)(F)							
B. Personnel Training Plan:	264.16							
Outline of training program	264.16(a)(1-3)							
Facility personnel must complete the program required training 6 months after the date of employment	264.16(b)							
Annual review	264.16(c)							
Job title/job description	264.16(d)(1-4)							
Training records	264.16(e)							
C. Security:	264.14							
24-hr surveillance system	264.14(b)(1)							
Artificial or natural barrier	264.14(b)(2)(i)							
Means to control entry	264.14(b)(2)(ii)							
Warning signs	264.14(c)							

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			Y	*N*	*Y*	*N*		
III. FACILITY MANAGEMENT								
Demonstration that the previous security items are not needed to prevent contact or disturbance of waste.	264.14(a)							
D. Inspection Schedule Is Table III. completed and submitted in hard copy and editable electronic format? Table must show:	264.15 264.33							
Inspection of monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment, etc.;	264.15(b)(1)							
Types of problems expressed as deficiencies indicating a need for corrections and/or repairs;	264.15(b)(3)							
Frequency of inspections	264.15(b)(4)							
Areas subject to spills (i.e., loading and unloading areas) must be inspected daily when in use	264.15(b)(4)							
Specific process inspection requirements & remedies;	264.15(c)							
Testing and maintenance of equipment; & Sample of inspection log form.	264.15(d) 264.33							
CONTAINER STORAGE AREA INSPECTION: *(weekly)*								
Leaks, spills, and deteriorations caused by corrosion or other factors (weekly)	264.174							
Containment system for Container Storage Areas:								
Free of cracks, gaps, leaks spills, precipitation;								
Area must be sloped;								
Containment contain 10% vol. of containers or the vol. of the largest containers;								
Containment run-on system;								
Spills, leaks, accumulated precipitation;								
Containers do not contain free liquids								
Loading and unloading areas for Container Storage Areas.								
TANK SYSTEM INSPECTION:								
Tank overfilling control;	264.195							
Above ground portions (daily);	264.195(c)(1)							
Tank monitoring data and leak detection equipment (daily);	264.195(b)							
Tank construction materials including secondary containment and surrounding area (daily);	264.195(c)(2)							

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			Y	*N*	*Y*	*N*		
III. FACILITY MANAGEMENT								
Ancillary Equipment without secondary containment must be inspected each operating day.	264.195 (f)							
Cathodic protection system:	264.195(g)							
Six months after installation and annually thereafter;	264.195(g)(1)							
Source of impressed current (bi-monthly).	264.195(g)(2)							
Facilities requesting a variance from secondary containment must:	264.193(h)							
Perform a leak test for non-enterable underground tanks (annually);	264.193(i)(1)							
Perform a leak test for other than non-enterable underground tanks;	264.193(i)(2)							
Ancillary equipment/leak test integrity assessment (annually);	264.193(i)(3)							
Maintain assessment records;	264.193(i)(4)							
Response to leaks following 264.196.	264.193(i)(5)							
SURFACE IMPOUNDMENT INSPECTIONS: (weekly and after storms):	264.226(b)							
Deterioration, malfunction, or improper overtopping control system;	264.226(b)(1)							
Sudden drops in the level of impoundment contents;	264.226(b)(2)							
Deterioration of containment devices;	264.226(b)(3)							
Leak detection system inspected at least once each week during active life and closure period.	264.226(d)(1)							
WASTE PILE INSPECTION: (weekly and after storms):	264.254(b)							
Run-on and run-off control system inspected for deterioration, malfunction, or improper operation of;	264.254(b)(1)							
Wind dispersal system;	264.254(b)(2)							
Leachate collection and removal systems;	264.254(b)(3)							
Leak detection system;	264.254(c)							
LAND TREATMENT UNIT INSPECTION: (weekly and after storms)	264.273(g)							
Deterioration, malfunctions, or improper operation of run-on and run-off control systems;	264.273(g)(1)							
Wind dispersal control system.	264.273(g)(2)							

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III. FACILITY MANAGEMENT								
LANDFILL INSPECTION: (weekly and after storms)	264.303(b)							
Deterioration, malfunctions, or improper operation of run-on and run-off control systems;	264.303(b)(1)							
Wind dispersal control system;	264.303(b)(2)							
Leachate collection and removal system inspected for presence of leachate and proper function;	264.303(b)(3)							
Amount of liquids removed from each leak detection system sump recorded and pump operating levels meet permit specified values.	264.303(c)							
INCINERATOR INSPECTION:	264.347							
Incinerator and associated equipment visual inspection (daily);	264.347(b)							
Incinerator waste feed cut-off system and associated alarms tested (weekly);	264.347(c)							
BOILER AND INDUSTRIAL FURNACES INSPECTION:	266.102(e)(8)							
BIF and associated equipment- visual inspection (daily);	266.102(e)(8)(iii)							
Feed cut-off system and associated alarms (weekly).	266.102(e)(8)(iv)							
DRIP PAD INSPECTION: (weekly and after storms):	264.574(b)							
Deterioration, malfunctions, or improper operation of run-on and run-off control systems;	264.574(b)(1)							
Presence of leakage in the leak detection system;	264.574(b)(2)							
Deterioration or cracking of the drip pad surface.	264.574(b)(3)							
MISCELLANEOUS UNIT INSPECTION	264.602							
CONTAINMENT BUILDING INSPECTION	264.1101							
E. Contingency Plan (Does not apply to post-closure application)	335.152(a)(1)(C & D) 264 subparts C & D							
Amendments to SPCC Plan (as applicable)	264.52(b)							
General information includes facility drawing showing location of all emergency equipment, emergency coordinators and statements that the emergency coordinator. is authorized to commit the resources of the facility;	264.52 264.55							
Location of waste and demonstration that facilities will be eligible to receive HW;	270.14(b)(11)(iv)(C)(*2*)							

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			Y	*N*	*Y*	*N*		
III. FACILITY MANAGEMENT								
Potential for accidental discharges of waste during movement;	270.14(b)(11)(iv)(C)(*4*)							
Copy of Contingency Plan	264.53							
Amendments of contingency plan	264.54							
Emergency procedures, notification & post-incident written report.	335.153 264.56							
1. Arrangements with local authorities (Table III.E.1) completed and submitted in hard copy and editable electronic format?:	264.37 264.52(c)							
Arrangements to familiarize local authorities:	264.37(a)(1)							
Facility layout;	264.37(a)(1)							
Properties of HW handled;	264.37(a)(1)							
Possible injuries form fires, explosions, or releases of HW at the facility;	264.37(a)(4)							
Facility personnel work areas;	264.37(a)(1)							
Facility entrances; and	264.37(a)(1)							
Evacuation routes.	264.37(a)(1)							
2. Emergency coordinators (list of addresses and telephone numbers) (Table III.E.2) completed and submitted in hard copy and editable electronic format? Must include alternate emergency coordinator(s)	264.52(d)							
3. Emergency equipment lists (Table III.E.3) completed and submitted in hard copy and editable electronic format?:	264.32 264.52(e)							
Fire-extinguishing system;	264.32(c) 264.52(e)							
Spill-control equipment;	264.32(c) 264.52(e)							
Communications and alarm systems (internal and external);	264.32(a) and (b) 264.52(e)							
Decontamination equipment;	264.32(c) 264.52(e)							
Water at adequate volume & pressure, foam producing equipment, sprinklers, or water spray systems.	264.32(d) 264.52(e)							
Testing and Maintenance of equipment (May include as Part of Inspection Schedule)	264.33 264.15(b)(1)							
Access to communications or alarm system	264.34							

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			Y	*N*	*Y*	*N*		
III. FACILITY MANAGEMENT								
Evacuation plan and signal.	254.52(f)							
F. Emergency Response Plan (For new commercial HWM facility only)	305.50(a)(12)(C-D)							
1. Practice Drills:								
Timing if practice evacuation drills;	305.50(a)(12)(C)(i)(I)							
Efficiency and safety of evacuation.	335.183(d)(11)							
2. Contracts:								
Contracts with any private corporation, municipality, or county.	305.50(a)(12)(C)(i)(I)							
3. Weather:								
Historical weather data;	305.50(a)(12)(C)(i)(III)							
Seasonally prevailing winds and weather.	335.183(d)(3)							
4. Worst-Case emergencies: Definition of worst-case emergencies	305.50(a)(12)(C)(i)(IV)							
5. Training program Training program for emergency response personnel in OSHA.	305.50(a)(12)(C)(i)(V) 264.16 29 CFR 1910.120(e) EPA Fed Reg. 311 TX Haz. Comm. Act SARA 302, 304, 311, 312, 313							
6. First Responders:								
Identification of first responders	305.50(a)(12)(C)(i)(VI)							
Length of time for first response	335.183(d)(6)							
Equipment and trained personnel available on first response basis	335.183(d)(8)							
7. Identification of local or regional emergency medical services:	305.50(a)(12)(C)(i)(VII)							
Availability of local emergency response resources.	335.183(d)(4)							
8. Pre-disaster Plan.	305.50(a)(12)(C)(i)(VIII)							
9. A mechanism for notifying first respondent and all applicable government agencies (i.e. TCEQ, TPWD, TCEQ Office of Air Quality, GLO, TDH, & TRRC).	305.50(a)(12)(C)(i)(IX)							
10. Emergency Planning Committee and compliance with SARA Title III.	305.50(a)(12)(C)(i)(X)							
11. Medical Response:								
Medical response capabilities.	305.50(a)(12)(C)(i)(XI)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
III. FACILITY MANAGEMENT								
Ability to deal with various types of injuries.	335.183(d)(9)							
OTHER REQUIREMENTS OF 335.183(d) NOT ADDRESSED IN THE PART B APPLICATION:								
Geology of the area	335.183(d)(1)							
Drainage patterns	335.183(d)(2)							
Proximity of human exposure and/or sensitive environmental receptors	335.183(d)(5)							
Trained response teams on-site	335.183(d)(7)							
Ability to respond to environmental contamination	335.183(d)(10)							
Waiver or documentation of preparedness and prevention requirements of 264 subpart C.	270.14(b)(6)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
IV. WASTES AND WASTE ANALYSIS (Sections A, C, and D do not apply to post-closure care)								
A. Waste Management Information For new HWM facility or for capacity expansion, is Table IV.A completed and submitted in hard copy and editable electronic format? For on-site, list "on-site" for the waste source; For off-site, list the source of the waste. If unknown, potential sources must be identified.	305.50(a)(9)							
B. Waste Managed In Permitted Units. Is Table IV.B completed and submitted in hard copy and editable electronic format?	335.501 - 335.515 261.21 - 261.24 261.30 - 261.33							
C. Sampling and Analytical Methods Is Table IV.C completed and submitted in hard copy and editable electronic format?	264.13(a), (b)(1-4), & (c)(2), 261 Appendix I 261 Appendix II 261 Appendix III or any sampling method approved by EPA, 264.13(b)(5-8)							
D. Waste Analysis Plan:								

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
IV. WASTES AND WASTE ANALYSIS (Sections A, C, and D do not apply to post-closure care)								
Quality Control/Quality Assurance (Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846, 1987, as revised; latest version of the Quality Assurance Project Plan for the Texas Commission on Environmental Quality for Environmental Monitoring and Measurement Activities Relating to the Resource Conservation and Recovery Act)	SW-846 TCEQ QAPP							
For off-site facilities, the waste analysis plan must specify procedures which will be used to inspect and analyze each movement of industrial received at the facility to ensure it matches the identity of the waste designated on the accompanying shipping ticket.	264.13(c)(1)							
Requirements pertaining to Land Disposal Restrictions	Part 268 268.7(c) 264.13(a)							
CONTAINERS:(The Applicant must address the following information and may provide it in the Container Engineering Report with cross reference here, or provide information here and reference it in the Container Engineering Report)	264 subpart I							
Compatibility of waste with containers.	264.172							
Containers w/o secondary containment system, test procedures and results which show that wastes do not contain free liquid. Suggested test for free liquid is the Paint Filter Liquid Test (Method 9095).	270.15(b)							
Special requirements for ignitable or reactive wastes.	264.176							
Special requirements for incompatible wastes.	264.177							
TANKS: (The Applicant must address the following information and may provide it in the Tanks and Tank System Engineering Report with cross reference here, or provide information here and reference it in the Tank and Tank System Engineering Report)	264 subpart J							
Special requirements for ignitable or reactive wastes.	264.198							
Buffer zone requirements for tanks containing flammable and combustible liquids.	264.198(b)							
Special requirements for incompatible wastes.	264.199							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
IV. WASTES AND WASTE ANALYSIS (Sections A, C, and D do not apply to post-closure care)								
SURFACE IMPOUNDMENTS: (The Applicant must address the following information and may provide it in the Surface Impoundment Engineering Report with cross reference here, or provide information here and reference it in the Surface Impoundment Engineering Report)	264 subpart K							
Special requirements for ignitable or reactive wastes.	264.229							
Special requirements for incompatible wastes.	264.230							
Special requirements for hazardous wastes FO20, FO21, FO22, FO23, FO26, and FO27.	264.231							
WASTE PILES: :(The Applicant must address the following information and may provide it in the Waste Pile Engineering Report with cross reference here, or provide information here and reference it in the Waste Pile Engineering Report)	264 subpart L							
For waste piles that are inside or under a structure, when an exemption from 264.251 is requested, test procedures and results, or other documentation or information which shows that the wastes do not contain free liquids when placed on the pile. As suggested test for free liquids, is the Paint Filter Liquid Test (Method 9095)	264.250(c)(1)							
Demonstration that the wastes will not generate leachate through decomposition or other reactions while being stored.	264.250(c)(4)							
Special requirements for ignitable or reactive wastes.	264.256							
Special requirements for incompatible wastes.	264.257							
Special requirements for hazardous wastes FO20, FO21, FO22, FO23, FO26, and FO27.	264.259							
LAND TREATMENT UNITS: :(The Applicant must address the following information and may provide it in the LTU Engineering Report with cross reference here, or provide information here and reference it in the LTU Engineering Report)	264 subpart M							
Concentration and identification of hazardous constituents.	264.279							
Special requirements for ignitable wastes.	264.281							
Special requirements for incompatible wastes.	264.282							
Special requirements for hazardous wastes FO20, FO21, FO22, FO23, FO26, and FO27.	264.283							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
IV. WASTES AND WASTE ANALYSIS (Sections A, C, and D do not apply to post-closure care)								
LANDFILLS: (The Applicant must address the following information and may provide it in the Landfill Engineering Report with cross reference here, or provide information here and reference it in the Landfill Engineering Report)	264 subpart N							
Special requirements for ignitable wastes	264.312							
Special requirements for incompatible wastes	264.313							
Special requirements for bulk and containerized liquids:	264.314							
Bulk or non-containerized liquid;	264.314(a)							
Containers holding free liquids. (Containers holding free liquids must not be placed in landfill.);	264.314(b)							
Test procedures and results or documentation to show that wastes do not contain free liquid. Test Method 9095 (Paint Filter Liquid Test);	264.314(c)							
Containers holding free liquids must not be placed in landfill unless nonbiodegradable sorbents are used.	264.314(d)(e)							
Special requirements for hazardous wastes FO20, FO21, FO22, FO23, FO26, and FO27.	264.317							
INCINERATORS (covered under Section V.H)	335.152 (a)(13) 264 subpart O							
BOILERS AND INDUSTRIAL FURNACES (covered under Section V.I)	335.221-225 266 subpart H							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
General Information Required:								
Description of procedures, structures, or equipment used at the facility to:	270.14(b)(8)							
Prevent hazards in unloading operations;	270.14(b)(8)(i)							
Prevent run-off from hazardous handling;	270.14(b)(8)(ii)							
Prevent contamination of water supplies;	270.14(b)(8)(iii)							
Mitigate effects of equipment failure;	270.14(b)(8)(iv)							
Prevent undue exposure of personnel to hazardous waste; and	270.14(b)(8)(v)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Prevent releases to atmosphere.	270.14(b)(8)(vi)							
Traffic pattern, estimated volume (number and types of vehicles) and control. Description of access road surfacing and load bearing capacity. Traffic control sign should be shown.	270.14(b)(10)							
In each of the units, specific sections, precautions to prevent accidental commingling of incompatible wastes should be described. Information should be provided to ensure that precautions are taken to avoid danger due to:	264.17(b)							
Generation of extreme heat or pressure, fire, explosion, or violent reaction;	264.17(b)(1)							
Production of uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health;	264.17(b)(2)							
Production of uncontrolled flammable fumes or gases in sufficient quantities to pose risk of fire or explosion;	264.17(b)(3)							
Damaging the structural integrity of the device or facility containing the waste; or	264.17(b)(4)							
Threatening human health or the environmental by any other means.	264.17(b)(5)							
A. General Engineering Reports								
1. General Information:								
Is Table V.A completed and submitted in hard copy and editable electronic format?								
Overall plan view at an appropriate scale to show the location of all HWM units on 8 1/2" x 14" sheets and submitted in hard copy and editable electronic format?	305.45(a)(6)							
Topographic map(s) must show the facility boundary and a distance of 1,000 ft. around it, having a scale of 1 inch equal to not more than 200 feet. The map must clearly show:	270.14(b)(19)							
scale and date;	270.14(b)(19)(i)							
100-yr flood plain area;	270.14(b)(19)(ii)							
surface waters (including intermittent streams and drainage ditches);	270.14(b)(19)(iii)							
surrounding land uses;	270.14(b)(19)(iv)							
wind rose (may be submitted in a separate sheet);	270.14(b)(19)(v)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
orientation of the map (north arrow);	270.14(b)(19)(vi)							
legal boundaries of the HWM facility;	270.14(b)(19)(vii)							
access control or surveillance equipment;	270.14(b)(19)(viii)							
injection and withdraw wells both on-site and off-site;	270.14(b)(19)(ix)							
buildings;	270.14(b)(19)(x)							
treatment, storage or disposal operations;	270.14(b)(19)(x)							
recreation areas;	270.14(b)(19)(x)							
run-off control system;	270.14(b)(19)(x)							
access and internal roads;	270.14(b)(19)(x)							
storm, sanitary, and process sewerage system;	270.14(b)(19)(x)							
loading and unloading areas;	270.14(b)(19)(x)							
fire control facilities;	270.14(b)(19)(x)							
barriers for drainage or flood control; and	270.14(b)(19)(xi)							
location and outline of operational units.	270.14(b)(19)(xii)							
Additional information requirements found on topographic maps: *(If any of the following information has been submitted as part of the GW Monitoring Report in Section VI, provide a reference to it here)*								
identification of the uppermost aquifer.	270.14(c)(2)							
delineation of the waste management units;	270.14(c)(3)							
property boundary;	270.14(c)(3)							
proposed “Point of Compliance” as defined under 264.95;	270.14(c)(3)							
proposed location of GW monitoring wells as required under 264.97;	270.14(c)(3)							
Information requirements for SWM units*: (If any of the following information has been submitted as part of the Preliminary Review Checklist, provide a reference to it here)*	270.14(d)(1)							
location of the unit on a topographic map;	270.14(d)(1)(i)							
designation of type of unit;	270.14(d)(1)(ii)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
general dimensions and structural description;	270.14(d)(1)(iii)							
when unit was operated;	270.14(d)(1)(iv)							
specification of wastes that have been managed at the unit, to the extent available.	270.14(d)(1)(v)							
2. Features to Mitigate Unsuitable Site Characteristics (information covered under Sections I.E & II.F)	335.204(a)(1, 3-9) 335.204(b)(1, 4-5, 7-10, 12) 335.204(c)(1, 4-9, 11); 335.204(d)(1, 4-9, 11); 335.204(e)(1, 4-5, 8-11, 13)							
3. Construction Schedules								
Schedule of compliance for retrofitting.	270.33(a)(2) 270.33(b)							
Time limitation for construction of commercial HWM units: Must be included in the application for commercial HWM facilities, permit applications (new, renewal, or interim status applications, major amendments, or Class 3 modifications submitted after 11/23/94).	305.149							
4. Detailed plans and specifications individually sealed, signed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number.	270.14 305.50(a)(7)							
B. Container Storage Areas	335.152(a)(7) 264 subpart I							
An Engineering Report should be provided with information specified in: 264.170-173, 264.175-264.177, and 270.15	264.170-173 264.175-177 270.15							
1. Is Table V.B completed and submitted in hard copy and editable electronic format?								
2. Design and operation for containment system including diagrams and engineering drawings (plans):	270.15							
A base which is free of cracks or gaps must underlay the containers; the base must be sloped, or the containment system must be designed and operated to drain and remove liquids resulting from leaks, spills or precipitation.	264.175(b)(1-2)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Overflow prevention.	264.175(b)(5) 270.15(a)(5)							
Basic design parameters, dimensions, and materials of construction.	270.15(a)(1)							
Drainage design:	270.15(a)(2)							
a. Containment system must have sufficient capacity to contain 10% volume of containers or volume of largest container (TCEQ recommends 25-yr, 24-hr rainfall event for extra capacity of uncovered areas)	264.175(b)(3), 270.15(a)(3)							
b. Run-on prevention (TCEQ recommends 25-yr, 24-hr rainfall event to calculate the excess capacity)	264.175(b)(4), 270.15(a)(4)							
3. Wastes Containing No Free Liquids Storage areas that store containers holding only wastes that do not contain free liquids need not have a containment system, provided that:	264.175(c)							
Storage area is sloped or designed and operated to drain and remove liquid resulting from precipitation; and	264.175(c)(1)							
Containers are elevated or otherwise protected from contact with accumulated liquid the following info. A demonstration must be submitted that includes:	264.175(c)(2)							
a. Test procedures and results that wastes do not contain free liquid; and	270.15(b)(1)							
b. Design and operation of storage to remove and drain liquids.	270.15(b)(2)							
Containers holding Dioxin wastes (FO20, FO21, FO22, FO23, FO26 and FO27) that do not contain free liquids must meet 264.175(b).	264.175(d)							
4. If container storage area will manage ignitable or reactive wastes, engineering report drawings with buffer zone requirements must be included.	264.17 264.176							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
5. Detailed plans and specifications individually sealed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number.	270.14 305.50(a)(7)							
Additional information required:								
Aisle space requirements.	264.35							
Condition of containers.	264.171							
Compatibility of waste with containers.	264.172							
Container management practices.	264.173							
Special requirements of incompatible wastes. (May provide information here, or reference information provided in Section IV.)	264.177							
Air Emission Standards (Part 264 Subpart AA, BB, and CC Requirements)	264.179							
6. Management of nonhazardous waste in CSA: If facilities are managing nonhazardous wastes, the types, quantities, and other information on the nonhazardous waste may need to be included as part of CSA Engineering Report and Table V.B.								
C. Tanks and Tank Systems	335.152(a)(8) 264 subpart J							
An Engineering Report should be provided with information specified in: 264.190-194, 264.196, 264.198-199, and 270.16.	264.190-194 264.196 264.198-199 270.16							
1. Is Table V.C. completed and submitted in hard copy and editable electronic format?								
2. If tank will manage ignitable or reactive waste, the engineering report must describe and contain drawings demonstrating the buffer zone requirements.	264.17 264.198							
3. Special requirements of incompatible waste	264.17 264.199							
4. Written assessments and certification must be submitted and reviewed by a licensed PE for existing tank system(s) without adequate secondary containment.	264.191 264.193 270.11(d)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
5. If tank has been derated or if the permitted capacity is different from the design capacity, the applicant must specify this information in the engineering report.								
Additional Information Required For Tanks and Tank Systems:								
40 CFR 264.193 Exemption from Secondary Containment Requirements: • Based on management of NO FREE LIQUIDS in Tanks • Based on tanks and sumps that serve as secondary containment to collect or contain releases or spills	264.190(a) 264.190(b)							
Applicant should address how they will respond to leaks, spills and/or the disposition of leaking or unfit for-use tank systems. The discussion should include:	264.196							
Cessation of use; prevent flow or addition of wastes;	264.196(a)							
Removal of waste from tank system or secondary containment system;	264.196(b)							
Containment of visible releases to environment;	264.196(c)							
Notification, reports;	264.196(d)							
Notification of secondary containment repair;	264.196(e)							
Certification of major repairs.	264.196(f)							
Assessment of existing tank system:	264.191							
Assessment of existing system's integrity certified by a licensed PE;	264.191(a)							
Design standards;	264.191(b)(1)							
Hazardous characteristics of wastes in tanks;	264.191(b)(2)							
Existing corrosion protection;	264.191(b)(3)							
Age of tank(s);	264.191(b)(4)							
For non-enterable tanks: Leak test/integrity examination	264.191(b)(5)							
New tank systems or components:	264.192							

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			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Assessment of new tank system's integrity;	264.192(a) 270.11(d) 270.16(a)							
Design standards;	264.192(a)(1)							
Hazardous characteristics of wastes;	264.192(a)(2)							
Existing corrosion protection.	264.192(a)(3)(i-ii)							
Tank system(s) plans and specifications								
Dimensions and capacity;	270.16(b)							
Feed systems;	270.16(c)							
Piping, instrumentation, process flow;	270.16(d)							
External corrosion protection;	270.16(e)							
Description of tank system installation and testing plans and procedures;	270.16(f)							
Plans and description of the design, construction and operation of the secondary containment system for each tank system.	270.16(g)							
Description of overfill and spill control as required under 264.194(b):	270.16(i)							
Spill prevention controls;	264.194(b)(1)							
Overfill prevention controls;	264.194(b)(2)							
Maintenance of sufficient freeboard for uncovered tanks if no other controls to prevent overfilling.	264.194(b)(3)							
Special requirements for ignitable or reactive wastes.	264.198 270.16(j)							
Special requirements for incompatible wastes.	264.199 270.16(j)							
Information on air emission control equipment as required in 270.27.	270.16(k)							
Secondary containment system: Should be capable of detecting and accumulating releases until collected material is removed.	264.193(b)(1) 264.193(b)(2)							
Minimum requirements:	264.193(c)							
Compatibility, strength;	264.193(c)(1)							
Foundation strength;	264.193(c)(2)							
Detect leak within 24 hours;	264.193(c)(3)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Drain/remove liquid within 24 hours.	264.193(c)(4)							
Secondary containment includes:	264.193(d)							
Liner external to the tank;	264.193(d)(1)							
Vault;	264.193(d)(2)							
Double-walled tank;	264.193(d)(3)							
Justification for equivalent device submitted.	264.193(d)(4)							
Containment capacity:	264.193(e)							
Tanks using External Liners and/or Vault Systems must contain 100% of largest tank plus 25-yr, 24-hr infiltration or run-on;	264.193(e)(1)(i) 264.193(e)(2)(i) 264.193(e)(1)(ii) 264.193(e)(2)(ii)							
External liner must be free of cracks or gaps, and must be designed and installed to surround the tank.	264.193(e)(1)(iii) 264.193(e)(1)(iv)							
Vault must be constructed with chemical resistant water stops in all joints and provided with an impermeable interior coating, means to protect against formation of ignitable vapors, and an exterior moisture barrier or an alternate means to protect against moisture incursion	264.193(e)(2)(iii) 264.193(e)(2)(iv) 264.193(e)(2)(v) 264.193(e)(2)(vi)							
A double-walled tank must completely envelope inner tank as an integral structure;	264.193(e)(3)(i)							
Protected from corrosion of both the interior and exterior tank shells.	264.193(e)(3)(ii)							
Provided with built-in continuous leak protection system	264.193(e)(3)(iii)							
Secondary containment for ancillary equipment.	264.193(f)							
Variance from secondary containment from the requirements of 264.193 & 264.193(g):	270.16(h)							
Variance based on demonstration of equivalent protection of groundwater and surface.	264.193(g)(1)(i-iv)							
Variance on demonstration if no substantial present or potential hazard.	264.193(g)(2)(i-iv)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Inspection Requirements (may provide information here and complete Table III-D and submit in hard copy and editable electronic format?.	264.195							
Detailed plans and specifications individually sealed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number.	270.14(a) 305.50(a)(7)							
D. Surface Impoundments (SI)	335.152(a)(9) 264 subpart K							
A surface impoundment report must be submitted which at a minimum includes the following:	270.17							
The costs associated with above-grade construction and the potential adverse effects.	305.50(a)(5)							
For new SI located in recharge zone must include a hydrogeologic report prepared by a licensed professional geoscientist or PE along with the Registered Engineering Firm's name and Registration Number.	305.50(a)(6)							
Construction quality assurance program.	264.19 EPA Publications 530-SW-85-014 EPA/600/R-93/182, as applicable							
Action leakage rate.	264.222 270.17(b)(5)							
Response action plan.	264.223 270.17(b)(5)							
Liner system exemption requests.	335.168(b) 264.221(b)							
Monitoring and inspection during construction.	264.226(a)							
Emergency repairs contingency plans.	264.227							
1. Is Table V. D. 1 completed and and submitted in hard copy and editable electronic format?	270.17(a)							
2. If SI will manage ignitable or reactive wastes as indicated in Table V. D.1, is 264.17 & 264.229 requirements included in the engineering report?	264.17(g) 264.229							

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			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
3. If SI will manage incompatible wastes as indicated in Table V.D.1, 264.17 and 264.230 requirements included in the engineering report?	264.17(h) 264.230							
4. If SI will manage FO20, FO21, FO22, FO23, FO26, & FO27 as indicated in Table V.D.1, is 264.231 requirement included in the engineering report?	264.231							
5. Describe the SI. A plan view and cross-section should be included.								
6. Freeboard: Must address Overtopping prevention resulting from:	335.168(g) 264.221(g) 270.17(b)(6)							
Overtopping prevention from 100-yr, 24-hr storm;	335.168(g)							
Overfilling;	335.168 (g) 264.221(g)							
Wind;	335.168(g) 264.221(g)							
Wave action;	335.168(g) 264.221(g)							
Rainfall;	335.168(g) 264.221(g)							
Run-off/Run-on;	335.168(g) 264.221(g)							
Malfunctions of level controllers.	335.168(g) 264.221(g)							
7. Waste Flow: If SI is inflow, overtopping prevention. Applicant should provide appropriate detailed drawings.	335.168(g) 264.221(g)							
8. Dike construction including engineering drawings, diagrams and plans	264.221(h) 335.168(h)							
a. Dike engineering certification, certified by a licensed PE	264.226(c) 305.50(a)(7)							
1) Stress of pressure from wastes;	264.226(c)(1)							
2) Will not fail due to scouring or piping;	264.226(c)(2)							
b. Structural integrity certified by a licensed PE	264.226(c) 270.17(d)							
c. Report on dike design should include:	335.168(i)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
1) Slope stability analysis;								
2) Hydrostatic and hydrodynamic;								
3) Storm loading;								
4) Rapid draw down.								
d. Protective cover for earthen dikes (protective cover and installation and maintenance must be described)								
9. Containment System	335.168(i)							
a. Is Table V.D.6 completed and and submitted in hard copy and editable electronic format?	264.221							
b. Analysis for the following in the Engineering Report:								
For artificial liners:	335.168(i) 264.221(a)							
1) Seaming method;								
2) Surface preparation method;								
3) Tensile strength;								
4) Impact resistance;								
5) Compatibility demonstration;								
6) Foundation design (including settlement potential, bearing capacity and stability, and potential for bottom heave blow-out) for soil liners.								
For Soil Liners:	335.168(i)							
7) Waste migration;								
8) Atterberg Limits, % passing a # 200 sieve, and permeability;								
9) Moisture Content;								
10) Standard Proctor Density & compaction data;								
For Leachate Collection Systems:	335.168(i) 264.221(c)(2)							
11) Pipe Material and Strength;								
12) Pipe Network Spacing and Grading;								

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
13) Collection Sump(s) Material and Strength;								
14) Drainage Media Specifications and Performance;								
15) Analyses showing that pipe and pipe perforation size will prevent clogging and allow free liquid access to the pipe;								
16) Compatibility Demonstration;	264.221(c)(2)(iii)							
17) Capacity of System:	264.221(c)(2)(iv-v)							
a) rate of leachate removal;								
b) capacity of sumps;								
c) thickness of mounding and maximum hydraulic head.								
c. Installation date and expected life of liner system.								
d. Tests or documentation for whether the liner is chemically resistant to waste and how this resistance was determined.	335.168(a)(1-2)							
e. QA/QC Plan for all components.								
f. Submitted Response Action Plan for exceedances of Action Leakage Rate?	264.223(a)							
10. New and existing impoundment(s), lateral expansion(s) or replacements of existing units must meet MTR unless an appropriate waiver is granted by the Commission. MTR addresses:	335.168 264.221							
Liner system requirements (must install 2 or more liners):								
Constructed with sufficient strength and thickness;	335.168(a)(1) 264.221(a)(1)							
Placed upon foundation;	335.168(a)(2) 264.221(a)(2)							
Installed to cover surrounding earth likely to be in contact with waste or leachate;	335.168(a)(3) 264.221(a)(3)							
A top liner must be constructed with geomembrane to prevent migration of hazardous;	264.221(c)(1)(i)(A) [as referenced in 335.168(c)]							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
A composite bottom liner consisting of at least 2 components constructed of at least 3 ft. or compacted soil.	264.221(c)(1)(i)(B) [as referenced in 335.168(c)]							
Leakage detection system must be designed constructed with at a minimum:	264.221(c)(2) [as referenced in 335.168(c)]							
1% or more bottom slope;	264.221(c)(2)(i) [as referenced in 335.168(c)]							
1x 10^{-1}cm/s hydraulic conductivity, 12 in. (30.5 cm) thickness, or synthetic drainage(geonet) with transmissivity of $3X10^{-4}$ m^2sec or more;	264.221(c)(2)(ii) [as referenced in 335.168(c)]							
Chemical resistant to waste;	264.221(c)(2)(iii) [as referenced in 335.168(c)]							
Minimize clogging;	264.221(c)(2)(iv) [as referenced in 335.168(c)]							
Sumps and liquid removal methods;	264.221(c)(2)(v) [as referenced in 335.168(c)]							
Collect and remove pumpable liquids in the sumps.	264.221(c)(3) [as referenced in 335.168(c)]							
Liner system location relative to high water table.	264.221(c)(4) [as referenced in 335.168(c)]							
11. Run-on Diversion: Prevent run-on to active portion from 100-yr storm.	264.221(g) 335.168 (g)							
12. Alternate design and operating practices and location characteristic to:	264.221(d) [as referenced in 335.168(d)]							
a. Prevent migration into the groundwater or surface water;	264.221(d)(1) [as referenced in 335.168(d)]							
b. Allow detection of leaks of hazardous constituents through the top liner.	264.221(d)(2) [as referenced in 335.168(c)]							
13. Exemption from double liner requirements for monofills.	335.168(e) 264.221(e)							
Detailed plans and specifications individually sealed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number	305.50(a)(7)							
E. Waste Piles (WP)	335.152(a)(10) 264 subpart L							
A waste pile engineering report must be submitted which at a minimum includes the following:	270.18							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Liner description (design, operation, installation, construction and leachate collection system). For new waste pile unit or lateral expansion of existing unit must comply with 264.251 (c)	335.170(a)(1-2) 264.251(a)							
Construction quality assurance program	264.19 EPA Publications: 530-SW-85-014 600-R-93-182							
Waste piles that are under a structure and protected from precipitation are not subject to 264.251 so long as:	264.250(c) [as referenced in 335.170(c)]							
Free liquids are not placed in the waste pile;	264.250(c)(1) [as referenced in 335.170(c)							
Protected from precipitation run-on;	264.250(c)(2) [as referenced in 335.170(c)							
Wind dispersal is controlled;	264.250(c)(3) [as referenced in 335.170(c)							
Will not generate leachate.	264.250(c)(4) [as referenced in 335.170(c)]							
Calculation of action leakage rate	264.252							
Response action plan	264.253							
Monitoring and inspection during construction	264.254(a)							
1. Is Table V.E.1 completed and and submitted in hard copy and editable electronic format?	270.18(a)							
2. If WP will manage ignitable or reactive wastes as indicated in Table V.E.1, is 264.17 & 264.256 requirements included in the engineering report/	264.17 264.256							
3. If WP will manage incompatible wastes as indicated in Table V.E.1, is 264.17 & 264.257 requirements included in the engineering report?	264.17 264.257							
4. If WP will manage FO20, FO21, FO22, FO23, FO26, FO27 as indicated in Table V.D.1 is 264.231 requirement included in the engineering report?	264.259							
5. Description of WP design and construction..	270.18(c)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
6. Containment System (applicable to new waste piles and new portions of existing waste piles): Containment system design and construction	335.170; Tech. Guidance No. 6; EPA Publications: 530-SW-85-014 600-R-93-182							
a. Liner description (Table V.E.3) completed and and submitted in hard copy and editable electronic format?								
b. Liner engineering report(design, installation, construction, and operation of the liner and leachate collection system.) The analyses must include:	264.251							
For Artificial Liners:								
1. Seaming method								
2. Surface preparation method								
3. Tensile strength								
4. Impact resistance								
5. Compatibility demonstration								
6. Foundation design (including settlement potential, bearing capacity and stability, and potential for bottom heave blow-out)								
For Soil liners:								
7. Waste migration analysis (based on head, porosity, and permeability)								
8. Atterberg limits, % passing a #200 sieve, and permeability								
9. Moisture content								
10. Standard proctor density, compaction data								
For leachate detection, collection, and removal system: 264.251 requirements are for any new and/or lateral expansion of waste pile unit	264.251(a)(2) 264.251(c)(2) [as referenced in 335.170(d)]							
11. Capacity of system: rate of leachate removal; capacity of sumps; and thickness of mounding and maximum hydraulic head	264.251(a)(2) 264.251(c)(3)							
12. Pipe material strength	264.251(a)(2) 264.251(c)(3)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
13. Pipe network spacing and grading	264.251(a)(2) 264.251(c)(3)							
14. Collection sump(s) material and strength	264.251(a)(2) 264.251(c)(3)							
15. Drainage media specifications and performance	264.251(a)(2) 264.251(c)(3)							
16. Analysis showing that pipe and perforation size will prevent clogging and allow free liquid access to the pipe	335.170(a)(2)(B)							
17. Compatibility demonstration								
c. Installation date and expected life of liner system								
d. Tests or documentation that liner is chemically resistant to waste	335.170(a)(2)(A)(i)							
e. QA/QC plan								
f. Submitted Response Action Plan for exceedances of Action Leakage Rate?	264.253(a)							
7. Wind dispersal system control	335.170(j) 264.251(j)							
8. Run-on Diversion:	335.170(g) 264.251(g)							
System prevents flow onto active portion from peak discharge of at least a 100-yr, 24-hr storm;	335.170(g) 264.251(g)							
Analyses should include rates of flow, run-on volume and depth, and backwater calculations;								
Collection and holding facilities managed expeditiously after storm.	335.170(i)) 264.251(i)							
9. Run-off Control:	335.170(h)) 264.251(h)							
System collects and controls run-off volume resulting from 100-yr, 24-hr storm;	335.170(h)) 264.251 (h)							
Collection and holding facilities managed expeditiously; and	335.170(i) 264.251(i)							
Include run-off volume calculations.								
10. Design operating procedures: Must describe residuals (i.e. leachate) and the management process and the equipment used.	335.170 264.251 264.254							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
11. Description and list of equipment used: Must describe procedures used to place the waste in or on the pile and ensure that the containment system is protected from plant growth.	264.251 264.254 305.45(a)(8)(C) 335.170(k)							
12. Exemption from liner and leachate collection requirements:	335.170(b) 264.251(b) 264.251(d) [new WP]							
a. Prevention of waste migrating into ground or surface water at least as effectively as liners, etc.								
b. Will allow detection of leaks through liner at least as effectively.								
13. WP may be exempt from ground-water monitoring if:	264.250 (c) 264.90(b)							
a. Waste pile location entirely above seasonal high water table								
b. Waste pile inside or under some sort of structure and:	264.250(c)							
1. Contains no liquid waste;	264.250(c)(1) 264.90(b)(2)(ii)							
2. Protected from surface water run-on;	264.250(c)(2) 264.90(b)(2)(iii)							
3. Has wind dispersal control without wetting waste; and	264.250(c)(3)							
4. Will not generate leachate.	264.250(c)(4)							
c. Leachate collection and removal system must be above the top liner and:	264.90(b)(2)							
d. Liners must be of sufficient strength and thickness to prevent failure, cracking, etc. and:	264.90(b)(2)							
1. a. Waste pile must be underlain by 2 liners and a leak detection system to prevent migration;	264.90(b)(2)(iv) and (v)							
1. b. Demonstration of low potential for migration to uppermost aquifer during life of waste pile including closure period;	264.90(b)(2)(vi) and (vii)							
2. a. Waste pile must be underlain by a liner that is designed, constructed and installed to prevent migration; and	264.90(b)(2)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
2. b. Waste must be removed periodically to inspect liner for signs of deterioration, cracks, etc.	335.170(k							
Detailed plans and specifications individually sealed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number	305.50(a)(7)							
F. Land Treatment Units (LTU)	335.152(a)(11) 264 subpart M							
Engineering Report: A land treatment unit report must be submitted which at a minimum includes the following:	270.20							
Unsuitable site characteristics (covered under Section II.A & B)	335.204(c)							
For a new LTU to be located in recharge zone of a regional aquifer, applicant must submit a hydrogeologic report prepared by a licensed professional geoscientist or PE along with the Registered Engineering Firm's name and Registration Number.	305.50(a)(6)							
Recordkeeping	264.279							
1. Are Tables V.F.1 and V.F.2 completed and and submitted in hard copy and editable electronic format?								
For a new LTU, the horizontal and vertical dimensions must be provided and approved by the Regional Administrator. The maximum depth of treatment zone is:	264.271(c)							
a. No more than 1.5 m (5 ft.) from the surface; and	264.271(c)(1)							
b. More than 1 m (3 ht) above the seasonal high water table	264.271(c)(2)							
2. If the LTU will manage incompatible or reactive wastes, as indicated in Table V.F.1, the requirements of 264.17 & 264.281 should be included in the engineering report.	264.281							
3. If the LTU will manage incompatible or reactive wastes, as indicated in Table V.F.1, the requirements of 264.17 & 264.282 should be included in the engineering report?	264.282							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
4. If LTU will manage FO20, FO21, FO22, FO23, FO26, & FO27, as indicated in Table V.F.1, the requirements of 264.283 should be included in the engineering report?	264.283							
5. Description of LTU, a plan view and cross-section should be included.								
6. Is Table V. F.3 and submitted in hard copy and editable electronic format?								
7. Run-on diversion:	335.171(3)							
System collects and controls run-off volume resulting from 100-yr, 24-hr storm; and	335.171(3)							
Collection and holding facilities managed expeditiously after storm.	335.171(5)							
8. Run-off controls:	335.171(4)							
System collects and controls run-off volume resulting from 100-yr, 24-hr storm;	335.171(4)							
Collection and holding facilities managed expeditiously after storm; and	335.171(5)							
Run-off volume calculations should be included.								
9. Wind dispersal system controls.	335.171(6)							
10. Treatment demonstration should be included that has:	264.272							
A description of plans to conduct treatment demonstration as requirement in 264.272;	270.20(a)							
List of wastes;	270.20(a)(1)							
Characteristics of waste and presence of appendix VIII of 261 constituents;	264.272(c)(1)(i)							
Climate of the area;	264.272(c)(1)(ii)							
Topography of the area;	264.272(c)(1)(iii)							
Characteristics of the soil in the area;	264.272(c)(1)(iv)							
Data sources to be used to make the demonstration;	270.20(a)(2)							
Laboratory or field test that will be conducted, which should include:	270.20(a)(3)							
Type of test;	270.20(a)(3)(i)							
Materials, methods, and analytical procedures;	270.20(a)(3)(ii)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Expected time for completion;	270.20(a)(3)(iii)							
Volume and characteristics of the unit to be simulated, including treatment zone, climatic conditions, and operating practices; and	270.20(a)(3)(iv)							
A description of land treatment program as required under 264.271 that includes: the list of wastes; design and operating procedures; waste application rates and methods; control of pH; microbial enhancement/chemical reactions; and moisture control.	270.20(b)							
Duration of the test;	264.272(c)(3)(iii)							
Conducted in a manner that protects health & environment;	264.272(c)(3)							
Operating practices that will be used at the LTU;	264.272(c)(1)(v)							
11. Unsaturated zone monitoring program should address:	264.278							
Soil-pore liquid monitoring, which should include:	264.278(a)							
Hazardous constituents, which require approval by the regional administrator;	264.278(a)(1)							
Justification of principle hazardous constituents, which require approval by the regional administrator;	264.278(a)(2)							
Sampling location;	264.278(b)							
Background values;	264.278(c)							
Sampling frequency for soil and soil-pore liquid monitoring;	264.278(d)							
Sampling and analysis procedures:	264.278(e)							
Sample collection;	264.278(e)(1)							
Sample preservation and shipment;	264.278(e)(2)							
Analytical procedures;	264.278(e)(3)							
Chain of custody; and	264.278(e)(4)							
Statistical methods.	264.278(f-g)							
12. Food chain crop:	264.276							
Crops for human consumption;	264.276(a)(1)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Food chain crops demonstration;	264.276(a)(1)							
Demonstration basis;	264.276(a)(2)							
Test procedures;	264.276(a)(3-4)							
Cadmium bearing wastes; and	264.276(b)							
Animal feed.	264.276(b)(2)							
Detailed plans and specifications individually sealed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number	305.50(a)(7)							
G. Landfills	335.152(a)(12) 264 subpart N							
A Landfill Engineering Report must be submitted which at a minimum includes the following:	305.50(a)(5) 270.21							
For new landfill only: The costs associated with above-grade construction and potential adverse effect associated with above-grade construction	305.50(a)(5)							
For a new landfill only: Located in recharge zone must include a hydrogeologic report prepared by a licensed professional geoscientist or PE along with the Registered Engineering Firm's name and Registration Number.	305.50(a)(6)							
Test fill	264.19(c)(2)							
Calculation of action leakage rate	264.302							
Monitoring and inspection during construction or installation	264.303(a)							
Response action plan	264.304(a)							
Surveying and recordkeeping	264.309							
1. Is Table V.G. 1. completed and and submitted in hard copy and editable electronic format?								
2. If a landfill will manage ignitable or reactive wastes, as indicated in Table V.G.1, the requirements of 264.17 & 264.312 should be included in the engineering report.	264.312							
3. If a landfill will manage incompatible wastes, as indicated in Table V.G.1, the requirements of 264.17 and 264.313 should be included in the engineering report.	264.313							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
4. If a landfill will manage FO20, FO21, FO22, FO23, FO26, & FO27, as indicated in Table V.F.1, the requirements of 264.317 should be included in the engineering report?	264.317							
5. Landfill description including plan view and cross-section								
6. Containment system:	EPA Publications: 530-SW-85-014, 625/4-89-022, & SW-869							
a. Are Tables V.G.3 and V.G.4 completed and submitted in hard copy and editable electronic format?								
b. Liners and leachate collection system:								
Analysis for artificial liners:	EPA Publications: 530-SW-85-014, 625/4-89-022, & SW-869							
1. Seaming method								
2. Surface preparation method								
3. Tensile strength								
4. Impact resistance								
5. Compatibility demonstration								
6. Foundation design								
Analysis for soil liners:	EPA Publications: 530-SW-85-014, 625/4-89-022, & SW-869							
7. Waste migration analysis								
8. Atterberg limits, % passing a # 200 sieve, permeability								
9. Moisture content								
10. Standard proctor density, compaction data								
Analysis for leachate collection system:								
11. Capacity of the system: Should address:								
a. Rate of leachate removal								
b. Capacity of sumps								
c. Thickness of mounding and maximum hydraulic								

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
12. Pipe material strength								
13. Pipe network spacing and grading								
14. Collection sump material and strength								
15. Drainage media specifications and performance								
16. Analysis showing that pipe and pipe perforation size will prevent clogging and allow free liquid access to the pipe								
17. Compatibility demonstration								
c. Tests and documentation should be submitted if liner system and leachate collection components are chemically resistant to wastes.								
d. QA/QC plan								
e. Whether the leachate collection components are chemically resistant to the waste and how this resistance was determined. Attach any tests or documentation to the engineering report.								
f. Provide a Response Action Plan that proposes actions to be taken in the case of exceedance of the landfill Action Leakage Rate. At a minimum the Response Action Plan must include the requirements of 40 CFR 264.304	40 CFR 264.304							
7. For Dikes:	EPA Publications: 625/4-89-022 & SW-869							
a. Slope stability analysis;								
b. Hydrostatic and hydrodynamic analyses; and								
c. Ability to withstand scouring from leaky liner, etc.								
8. For newly regulated units, lateral expansions or replacement of existing units must meet MTR:	335.173 264.301							
Top liner migration prevention;	264.301(c)(1)(i)(A)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Composite bottom liner migration prevention;	264.301(c)(1)(i)(B)							
Leachate collection and removal systems above and between liners;	264.301(c)(2)							
Leachate collection and removal systems between liners and immediately above the bottom composite liner;	264.301(c)(3)							
Removal of pumpable liquids;	264.301(c)(4)							
Liner system location relative to high water table;	264.301(c)(5)							
Design and operating requirements for new and existing liner systems:	335.173 264.301							
Liner must be constructed of materials that prevent wastes passing into the liner during the active life of the facility;	335.173(a)(1)							
Materials have appropriate chemical properties and sufficient strength and thickness to prevent failure due to:	335.173(a)(1)(A)							
Pressure gradients (including static head and external hydrogeologic forces);	335.173(a)(1)(A)							
Physical contact with waste or leachate;	335.173(a)(1)(A)							
Climate conditions;	335.173(a)(1)(A)							
Stress of installation and daily operation.	335.173(a)(1)(A)							
Liner system foundation;	335.173(a)(1)(B)							
Liner system coverage;	335.173(a)(1)(C)							
Bottom liner migration prevention;	335.173(a)(2)(A)							
Minimize rate of migration of wastes out of landfill;	335.173(a)(2)(B)							
Leachate collection and removal systems above top liner;	335.173(a)(3)							
Conditions that ensure leachate depth will not exceed 30 cm (1ft.);	335.173(a)(3) 264.301(c)(3)(ii)							
Construction of materials that are chemically resistant to waste and leachate;	335.173(a)(3)(A)(i)							
Materials strength and thickness;	335.173(a)(3)(A)(ii)							
Design and operation to prevent clogging;	335.173(a)(3)(B)							
Liner system exemption requests;	335.173(b)							
Exemption based on existing portion;	335.173(d)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Exemption for monofills.	335.173(e) 264.301(e)							
9. Site Development Plan:								
Method of waste deposition;								
Waste segregation;								
Average and maximum lift size;								
Average and maximum cell and trench size.								
10. Run-on controls								
Design, construction, operation and maintenance of run-on control system;	335.173(g) 264.301(g)							
Collection and holding facilities managed expeditiously;								
a.. Run-on volume and depth calculations resulting from 100-yr, 24-hr storm	335.173(g)							
b. Back-water calculations (for ditches on plant property)								
11. Run-off Controls:								
Design, construction, operation and maintenance of run-off control system	335.173(h) 264.301(h)							
System collects and controls run-off volume resulting from 100-yr, 24-hr storm	335.173(h)							
12. Wind dispersal.	335.173(j) 264.301(j)							
13. Liquid wastes: Supporting documentation should be provided that an appropriate stabilization procedures, etc. were used for the following:	264.314							
Bulk or containerized free liquids;	335.175(a-b) 264.314(a-b)							
Placement of any liquid waste which is not a hazardous waste in a landfill;	335.175(c)							
Containers holding free liquids:	335.173(d)							
Restriction to small containers (e.g. ampule);	335.173(d)(1)							
Non-storage containers(e.g. battery or capacitor);	335.175(d)(2)							
Labpack containers.	335.175(d)(3)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
14. Alternate design or operating practices:	335.175(d) 264.301(d)							
a. Will prevent migration of hazardous constituents into the groundwater;								
b. Will allow detection of leaks of hazardous constituents through the top liner at least as effectively.								
15. Exemption from double-liner requirements for monofills:	264.301(e)							
Alternative design and operation;	335.173(b)							
Nature and quantity of wastes;	335.173(b)(1)							
Proposed alternate design and operation;	335.173(b)(2)							
Hydrogeologic setting , including liners and soils;	335.173(b)(3)							
All other factors which would influence the quality and mobility of leachate produced.								
16. Above-grade benefits: Benefits, costs, adverse effects associated with above-grade construction	361.108 (TX Health & Safety Code)							
Detailed plans and specifications individually sealed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number	305.50(a)(7)							
H. Incinerators	305 Subchapter I 335.152(a)(13) 264 subpart O							
1. Is Table V.H.1 - Incinerators completed and submitted in hard copy and editable electronic format?	270.19 270.62							
2. Is Table V.H.2 - Incinerator Permit Conditions, Monitoring, and Automatic Waste Feed Cutoff Systems completed and submitted in hard copy and editable electronic format?								
3. Is Table V.H.3 - Maximum Constituent Feed Rates completed and submitted in hard copy and editable electronic format?								
4. Is Table V.H.4 - Maximum Allowable Emission Rates completed and submitted in hard copy and editable electronic format?								

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
5. During shakedown period, trial burn period and period after completion of initial trial burn, Table V.H.5 - Incinerator Permit Conditions, Monitoring, and Automatic Waste Feed Cutoff Systems - Short-Term Operation, should be completed.								
6. Precautions taken for management of reactive and/or incompatible wastes.	264.17							
7. If incinerator manages FO20, FO21, FO22, FO23, FO26, or FO27, the DRE requirement is 99.9999%.	264.343(a)(2)							
8. For trial burn, one or more of Appendix VIII organic compounds present in waste must be designated as POHC. Selection based on concentration in waste feed and degree of difficulty to incinerate. Table V.H.8 - Principal Organic Hazardous Constituents must be completed and submitted in hard copy and editable electronic format.								
9. QA/QC Plan submitted for sampling, analysis and monitoring for trail burn.								
10. Integration with MACT Standards Minimization of emissions from startup, shutdown, and malfunction events for permitted units	305.175-176 270.235							
Retain relevant permit conditions?	270.235(a)(i)							
Revise relevant permit conditions?	270.235(a)(ii)							
Remove permit conditions with approved plan documentation	270.235(a)(iii)							
<u>INCINERATOR TRIAL BURN PLAN</u>	No Letter = Common D=DILO (Data In Lieu of Testing)							
TRIAL BURN PLAN REQUIREMENTS:	305.172/305.175 (New) 270.62 305.174/305.175 (Existing)							
Incinerator engineering description:	305.172(2)(B) 270.62(b)(2)(ii) D:270.19(c)(2)							
Manufacturer's name and model number of the incinerator.	305.172(2)(B)(i) 270.62(b)(2)(ii)(A) D:270.19(c)(2)(i)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Type of incinerator;	305.172(2)(B)(ii) 270.62(b)(2)(ii)(B) D:270.19(c)(2)(ii)							
Linear dimensions including cross sectional area of combustion chamber;	305.172(2)(B)(iii) 270.62(b)(2)(ii)(C) D:270.19(c)(2)(iii)							
Description of auxiliary fuel supply, type/feed, max and typical rate, and heat value;	305.172(2)(B)(iv) 270.62(b)(2)(ii)(D) D:270.19(c)(2)(iv)							
Capacity of prime combustion air mover(s);	305.172(2)(B)(v) 270.62(b)(2)(ii)(E) D:270.19(c)(2)(v)							
Description of automatic waste feed cutoff system, cut off values, instrumentation with instrument range and accuracy;	305.172(2)(B)(vi) 270.62(b)(2)(ii)(F) D:270.19(c)(2)(vi)							
Stack gas monitoring and pollution control equipment monitoring system with instrument range and accuracy;	305.172(2)(B)(vii) 270.62(b)(2)(ii)(G) D:270.19(c)(2)(vii)							
Nozzle, injector. and burner design;	305.172(2)(B)(viii) 270.62(b)(2)(ii)(H) D:270.19(c)(2)(viii)							
Construction material;	305.172(2)(B)(ix) 270.62(b)(2)(ii)(I) D:270.19(c)(2)(ix)							
Location and description of temperature, pressure, and flow indicating and control devices with instrument range and accuracy;	305.172(2)(B)(x) 270.62(b)(2)(ii)(J) D:270.19(c)(2)(x)							
Emergency shutdown procedures.	305.172(2)(B)(vi) & (2)(G) 270.62(b)(2)(ii)(K) & (b)(2)(vii)							
Description of air pollution control equipment operation and control.	305.172(2)(F) 270.62(b)(7)(vi)							
Identification of fugitive emission source, location, emission rate, and their means of control 40 CFR 264.345(d).	305.172(2)(H) & 305.172(7)(G) 270.62(b)(2)(viii) & 270.62(b)(7)(vii) D:270.19(c)(7)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Analysis of each waste or mixture of wastes:	305.172(2)(A) 270.62(b)(2)(i) D:270.19(c)(1)							
Waste heat value;	305.172(2)(A)(i) 270.62(b)(2)(i)(A) 270.19(c)(1)(i)							
Levels of antimony, arsenic, barium, beryllium, cadmium, chromium, lead, mercury, silver, thallium, all metals routinely detected by EPA Method used, total chlorine/chloride, and ash;	305.172(2)(H) 270.62(b)(2)(viii) D:270.19(c)(7)							
Viscosity (if applicable) or description of physical form of waste feed stream;	305.172(2)(A)(ii) 270.62(b)(2)(i)(B) D:270.19(c)(1)(ii)							
Identification of any hazardous constituents listed in Part261 appendix VIII;	305.172(2)(A)(iii) 270.62(b)(2)(i)(C) D:270.19(c)(1)(iii)							
Approximate quantification of all hazardous constituents;	305.172(2)(A)(iv) 270.62(b)(2)(i)(D) D:270.19(c)(1)(iv)							
POHC selection.	305.172(4) 270.62(b)(4) D:270.19(c)(1)(v)							
Sampling analysis, and monitoring procedures, locations, equipment description, frequency, and procedures.	305.172(2)C) 270.62(b)(2)(iii) D:270.19(c)(2)(x)							
Detailed trial burn schedule including dates, duration, quantity of waste to be burned, and other factors.	305.172(2)(D) 270.62(b)(2)(iv)							
Detailed test protocol table with column for each test condition containing detailed test conditions for each waste stream, operating temperatures, each waste feed rate, combustion gas velocity, use of auxiliary fuel, and other relevant parameter. Historical justification of Trial Burn test conditions.	305.172(2)(E) 270.62(b)(2)(v)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Other Information including, but not limited to, Engineering Drawings including incinerator, air pollution control devices, sampling protocols and access, PFD, PI&D, elevations and plan views, piping, containment, vessels, specifications, and calculations appropriately sealed.	305.172(2)(H) 270.62(b)(2)(viii) D:270.19(c)(7)							
TYPICAL AND MAXIMUM FLOW RATE OF EACH WASTE STREAM.	305.172(2)(H) 270.62(b)(2)(viii) D:270.19(c)(7)							
DATA OBJECTIVES FOR TRIAL BURN:								
Quantitative analysis of POHCs in waste feed to incinerator;	305.172(7)(A) 270.62(b)(7)(i) D:270.19(c)(8)							
Quantitative analysis of metals in feed streams, hazardous waste, and other fuels;	270.66(f)(1) (by procedure) D:270.19(c)(7)							
Quantitative analysis of exhaust gas for POHCs, O_2, & HCl, metals, and chlorine;	305.172(7)(B) 270.62(b)(7)(ii) 270.66(f)(4) (by procedure) D:270.19(c)(5)							
Quantitative analysis of scrubber water (if used), ash residue, and other residues for fate of POHCs;	305.172(7)(C) 270.62(b)(7)(iii)							
Computation of DRE per 40 CFR 264.343(b);	305.172(7)(D) 270.62(b)(7)(iv) D:270.19(c)(5)							
Computation of HCl removal efficiency per 40 CFR 264.343(b);	305.172(7)(E) 270.62(b)(7)(v) D:270.19(c)(5) & (6)(vii)							
Computation of PM per 40 CFR 264.343(c);	305.172(7)(F) 270.62(b)(7)(vi) D:270.19(c)(5)							
Measurement of average, maximum, and minimum temperatures and combustion gas velocity;	305.172(7)(H) 270.62(b)(7)(viii) D:270.19(c)(6)(v) & (c)(5)							
Continuous measurements of CO in exhaust gas;	305.172(7)(I) 270.62(b)(7)(ix) D:270.19(c)(5)(ii)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Other Information.	305.172(7)(J) 270.62(b)(7)(x) D:270.19(c)(7)							
PERFORMANCE STANDARDS:								
Incinerator burning HW must achieve a DRE of 99.99% for each POHC;	264.343(a)(1)							
An incinerator burning HW FO20, FO21, FO22, FO23, FO26, or FO27 must achieve a DRE of 99.9999% for each POHC;	264.343(a)(2)							
An incinerator burning HW and producing stack emissions of more than 1.8 kg/hr (4lbs/hr) of HCl must control HCl emissions if 1.8 kg/hr or 1% of HCl in the stack gas prior to entering any pollution control equipment;	264.343(b)							
An incinerator burning HW must not emit particulate matter in excess of 180 milligrams per dry standard cubic meter(0.08 grains per dry standard cubic foot) when corrected for the amount of 0_2 in the stack gas.	264.343(c)							
METALS EMISSIONS CONTROLS:	By Guidance/Procedure apply 266.106 & 270.22							
Tier 1 feed rate screening limits for metals are specified in Part 266 Appendix I as a function of TESH, Terrain type and land use - No test required:	266.106(b) 270.22(a)(3)							
Noncarcinogenic metals in all feed streams (HW, fuel, and industrial furnace feed stock);	266.106(b)(1) 270.22(a)(3)(i-iii)							
Carcinogenic metals in all fee streams HW, fuel, and industrial furnace feed stock;	266.106(b)(2)(i-ii) 270.22(a)(3)(i-iii)							
Terrain-adjusted effective stack height (TESH)determined;	266.106(b)(3)(i-iii) 270.22(a)(3)(iv)							
Terrain type- Non-complex or Complex;	266.106(b)(4) 270.22(a)(3)(iv)							
Land use - urban or rural;	266.106(b)(5) 270.22(a)(3)(iv)							
Multiple Stacks - all emissions form calculated worst-case stack;	266.106(b)(6) 270.22(a)(3)(v)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Eligible for Tier I;	266.106(b)(7) 270.22(a)(3)(vi)							
Metals feed rate monitoring;	266.106(b)(8) 270.22(a)(3)(i-iii) & (vii)							
Tier II emissions rate screening limits for metals are specified in Part 266 Appendix I as a function of: TESH, terrain type, and land use. Test required:	266.106(c) 270.22(a)(1) 270.66							
Noncarcinogenic metals;	266.106(c)(1)							
Carcinogenic metals;	266.106(c)(2)							
Emissions rate limits must be implemented by limiting feed rates of metals to trial burn levels, total feed rate per 266.102(e)(6);	266.106(c)(3)							
Terrain-adjusted effective stack height, good engineering practice stack height, terrain type, land use, and eligibility criteria in 266.106(b) apply	266.106(c)(4)							
Multiple stacks - all emissions from calculated worst-case stack.	266.106(c)(5)							
Tier III and Adjusted Tier I site-specific risk assessment - Test required:	206.106(d) 270.22(a)(1) 270.66							
Metals and controls must be demonstrated by testing using air dispersion modeling to predict the maximum annual average off-site ground level concentration and that acceptable ambient levels are not exceeded;	266.106(d)(1)							
Acceptable ambient levels listed in Part 266 Appendices IV and V;	266.106(d)(2)							
Carcinogenic metals - the sum of the ratios of the predicted maximum and annual average off-site ground level concentration to RSDs shall not exceed 1.0;	266.106(d)(3)							

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			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Noncarcinogenic metals - The predicted maximum annual average off-site ground level concentration or each metal shall not exceed the RAC;	266.106(d)(4)							
Multiple stacks- Must perform emissions testing and dispersion modeling to demonstrate aggregate emissions from all stacks do not exceed acceptable ambient levels;	266.106(d)(5)							
Feed rate limits set to levels during trial burn or compliance testing.	266.106(d)(6)							
Adjusted Tier 1 feed rate screening limits - Determined using Part 266 Appendix 1 screening limit and site-specific dispersion modeling. No test required.	266.106(e) 270.22(a)(3)							
Alternative Tier II or III implementation approaches.	266.106(f) 270.22(c)							
Emission testing for metals shall be conducted using the Multiple Metals Train as described in Part 266 Appendix IX.	266.106(g)							
Metal testing shall be conducted using Method 0060; and	266.106(g)(1)							
Hexavalent Chromium – Chromium Emissions are assumed to be hexavalent chromium unless emission testing is conducted using Method 0061.	266.106(g)(2)							
Dispersion modeling methods required under this section.	266.106(h)							
HCl & Cl_2 EMISSIONS STANDARDS	By Guidance/Procedure apply 266.107 & 270.22							
Tier 1 feed rate screening limits - Feed rate screening limits specified in Part 266 Appendix II as a function of TESH, Terrain type, and land use - Analysis required: Feed rate of total chlorine and chloride, organic and inorganic, in HW, fuels and industrial furnace feed stocks	266.107(b)(1) 270.22(a)(5) D:270.22(a)(6)							
Tier II emissions rate screening limits - Emission rate screening limits specified in Part 266, Appendix III as a function of TESH, Terrain type, and land use - emission test required.	266.107(b)(2) D:270.22(a)(6)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Terrain-adjusted effective stack height, good engineering practice stack height, terrain type, land use, and eligibility criteria in 266.106(b) apply	266.107(b)(3) D:270.22(a)(6)							
Multiple stacks - If more than one on-site stack from a BIF, the incinerator or other treatment unit is subject to control HCl and Cl_2 under RCRA permit or interim status and must comply with Tier I and II screening limits.	266.107(b)(4) D:270.22(a)(6)							
Tier III Site - Specific Risk Assessments - Emissions test required:	266.107(c)							
Emission rate for HCl and Cl_2 - demonstrated by using air dispersion modeling to predict the maximum annual average off-site ground level concentration for HCl and Cl_2 and demonstrate that acceptable ambient levels are not exceeded;	266.107(c)(1) D:270.22(a)(6)							
Acceptable ambient levels are listed in Part 266 Appendix IV for HCl and Cl_2;	266.106(c)(2) D:270.22(a)(6)							
Multiple stacks - must demonstrate that aggregate emissions for all on-site stacks do not exceed acceptable ambient levels;	266.107(c)(3) D:270.22(a)(6)							
Averaging periods defined in 266.102(e)(6).	266.107(d) D:270.22(a)(6)							
Adjusted Tier 1 feed rate screening limits - No test required.	266.107(e) D:270.22(a)(6)							
Emission testing - HCl and Cl_2 sampling shall be conducted using the procedures described in Methods 0050 or 0051	266.107(f) D:270.22(a)(6)							
Dispersion modeling per 40 CFR 266.106(h).	266.107(g)							
QA/QC PLAN	Guidance							
ADDITIONAL DATA REQUIRED FOR DATA IN LIEU OF TESTING (DILO):								
Waste Description and analysis comparisons;	270.19(c)(4)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Incinerator and pollution control design and operation condition comparison including firebox, burners/injectors, incinerator, air pollution control device and operation, and sampling port and process measurement locations;	270.19(c)(4)							
Previous trial burn results:	270.19(c)(5)							
Sampling and analysis methods;	270.19(c)(5)(i)							
Methods and results of monitoring;	270.19(c)(5)(ii)							
Expected incinerator operation comparison.	270.19(c)(6)							
Data from comparable facility or unit and Supplemental Information.	270.19(c)(7)							
Data QA/QC for data validation, including chromatograms, Chain of Custody, sample preservation records, laboratory notes, etc.	305.172(7)(J) EPA Publication SW-846 D:270.19(c)(7)							
Other Information for comparison including, but not limited to engineering drawings for incinerator, air pollution control devices, sampling ports and access, PI&D, elevations, and plan views, all sealed, signed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number..	305.172(7)(J) D:270.19(c)(7)							
I. Boilers and Industrial Furnaces	335.221-225 266 subpart H							
1. Is Table V.I.1 - Boilers and Industrial Furnaces completed and submitted in hard copy and editable electronic format?	270.22 270.66							
2. Is Table V.I.2 - Boiler and Industrial Furnace Permit Conditions, Monitoring, and Automatic Feed Cutoff Systems completed and submitted in hard copy and editable electronic format?								
3. Is Table V.I.3 - Maximum Constituent Feed Rates completed and submitted in hard copy and editable electronic format?								
4. Is Table V.I.4 - Maximum Allowable Emission Rates completed and submitted in hard copy and editable electronic format?								

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
5. During shakedown period, trial burn period, and period after completion of the initial trial burn, Table V.I.5 - Boiler and Industrial Furnace Permit Conditions, Monitoring, and Automatic Waste Feed Cutoff Systems - Short-Term Operation should be completed.								
6. Procedures to manage reactive and/or incompatible wastes.	264.17							
7. For FO20, FO21, FO22, FO23, FO26, and/or FO27 wastes the DRE is 99.9999%	266.104(a)(3)							
8. For trial burn, one or more of Appendix VIII organic compounds present in waste must be designated as POHC. Selection based on concentration in waste feed and degree of difficulty to incinerate. Table V.I.8 - Principal Organic Hazardous Constituents must be completed.	266.104(a)(2)							
9. QA/QC for all sampling, analysis, and monitoring activities for trial burn.	Guidance							
10. As applicable, information for facilities requesting addressing of permit conditions deferred to HWC MACT compliance	270.235(1)(a)(i)-(iii) 30 TAC 305.572(a)(6)							
B/IF TB/RB CHECKLIST	No Letter = Common D = DILO (Data In Lieu of Testing)							
TRIAL BURN PLAN REQUIREMENTS:								
Detailed engineering description of BIF:	270.66(c)(3) D.270.22(a)(6)							
Manufacturer's name and model number or the boiler or industrial furnace;	270.66(c)(3)(i) D:270.22(a)(6)							
Type of boiler or industrial furnace;	270.66(c)(3)(ii) D:270.22(a)(6)							
Maximum design capacity in appropriate units;	270.66(c)(3)(iii) D:270.22(a)(6)							
Description of hazardous waste feed system, and other fuels and feed stocks, nozzle, and injector;	270.66(c)(3)(iv) D:270.22(a)(6)							
Capacity of hazardous waste feed system;	270.66(c)(3)(v) D:270.22(a)(6)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Typical and maximum flow rate of each waste stream;	270.66(c)(9) D:270.22(a)(6)							
Description of automatic waste feed cutoff system, cut off values, instrumentation with instrument range and accuracy;	270.66(c)(3)(vi) D:270.22(a)(6)							
Description of any air pollution control system;	270.66(c)(3)(vii) D:270.22(a)(6)							
Description of stack gas monitoring and pollution control monitoring systems with instrument range and accuracy;	270.66(c)(3)(viii) D:270.22(a)(6)							
Emergency shutdown procedures.	270.66(c)(3)(vi) 270.66(c)(8) D:270.22(a)(6)							
Description of air pollution control equipment operation and control, and planned operation conditions.	270.66(c)(7) D:270.22(a)(6)							
Identification of fugitive emission source, location, and their means of control.	270.66(f)(6) D:270.22(a)(6)							
Analysis of all and each feed stream including HW, other fuels, feed stocks:	270.66(c)(1) D:270.22(a)(6)							
Heat value, levels of antimony, barium, beryllium, cadmium, chromium, lead mercury, silver, thallium, all metals routinely detected*by EPA Methods used, total chlorine/chloride, and ash;	270.66(c)(1)(i) D:270.22(a)(6)							
Viscosity (if liquid) or description of physical form of feed stream.	270.66(c)(1)(ii) D:270.22(a)(6)							
Analysis each HW as fired:	270.66(c)(2) D:270.22(a)(6)							
Identification of any hazardous constituents listed in Appendix VIII, Part 261	270.66(c)(2)(i) D:270.22(a)(6)							
Approximate quantification of hazardous constituents identified, SW-846	270.66(c)(2)(ii) D:270.22(a)(6)							
Description of blending procedures, analysis of blending materials, ratios (if applicable)	270.66(c)(2)(iii) D:270.22(a)(6)							
POHC selection.	270.66(e) D:270.22(a)(6)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Detailed description of sampling and monitoring procedures including locations, frequency, and planned analytical procedures.	270.66(c)(4) D:270.22(a)(6)							
Detailed test schedule including dates, durations, quantity of waste to be burned, and other factors:	270.66(c)(5)							
Table with column for each test condition containing detailed test conditions for each waste stream, operating temperatures, waste feed rate, combustion gas velocity and flow rate, use of auxiliary feed, hazardous waste feed rates, other fuel feed rates, planned operating conditions for emission control equipment, other relevant parameters, justification for test condition including historical justification, if any.	270.66(c)(6)							
Other information including, but not limited to, Engineering Drawings including boiler, combustion chamber, air pollution control devices, sampling ports and access, PFD, PI&D, elevations and plan views, instrument/control measurement locations, piping containment, vessels, specifications, and calculations, all sealed as appropriate.	270.66(c)(9)							
DATA OBJECTIVES FOR TRIAL BURN								
Quantitative analysis of metals in feed streams, HW, and other fuels.	270.66(f)(1) D:270.22(a)(6)							
DRE trial burn:	270.66(f)(2) D:270.22(a)(6)							
Quantitative analysis of POHCs in waste feed to incinerator;	270.66(f)(2)(i) D:270.22(a)(6)							
Quantitative analysis of exhaust gas for POHCs, O_2, HCl;	270.66(f)(2)(iii) D:270.22(a)(6)							
Computation of DRE per 40 CFR 264.343(a).	270.66(f)(2)(iii)							
For trial burn for chlorinated dioxins and furans - stack gas analysis for CDDs/CDFs, if applicable.	270.66(f)(3)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
For trial burn for particulate matter, metals, or HCl/$C1_2$, must provide stack gas analysis for PM, metals, or HCl/Cl_2, and computations.	270.66(f)(4) D:270.22(a)(6)							
For trial burn for DRE, metals or HCl/Cl_2, must provide analysis of scrubber water (if any), ash, other residues for POHCs, metals, and HCl/Cl_2, and computations.	270.66(f)(5) D:270.22(a)(6)							
Continuous measurements of CO, O_2, HC in stack gas.	270.66(f)(7) D:270.22(a)(6)							
Permit standards for burners-emission standards.	266.102(c) D:270.22(a)(6)							
STANDARDS TO CONTROL ORGANIC EMISSIONS:	266.104 D:270.22(a)(6)							
DRE standard of 99.99% for all HW constituents in the waste feed.	266.104(a)(1) D:270.22(a)(6)(i)(A)							
Designation of POHCs - those compounds in compliance with the DRE requirements in a trial burn in conformance with procedures prescribed in 270.66.	270.66(a)(2) D:270.22(a)(6)							
Dioxin listed waste-must achieve DRE of 99.999% for each POHCs as stated above.	270.66(a)(3) D:270.22(a)(6)							
SPECIAL PROVISIONS FOR BOILERS:								
Automatic waiver or DRE trial burn for Boilers that operate complaint with 266.110 that do not burn HW containing (or derived from) EPA hazardous waste FO20, FO21, FO22, FO23, FO26, FO27, are considered to be in conformance with DRE standard are exempt from DRE Trial Burn.	266.104(a)(4)							
Low risk waste exemption for DRE operation in Compliance with 266.109(a) is considered to be in compliance with 266.104(a)(1) and are exempt from DRE Trial Burn.	266.104(a)(5)							
CARBON MONOXIDE STANDARDS:								
Stack gas cannot exceed 100 ppmv on an hourly rolling average, corrected for 7% oxygen, dry basis.	266.104(b)(1) D:270.22(a)(6)							
Co and oxygen shall be continuously monitored in conference with part 266 Appendix IX.	266.104(b)(2) D:270.22(a)(6)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Compliance with 100ppmv must be continuously monitored and demonstrated during trial burn.	266.104(b)(3) D:270.22(a)(6)							
ALTERNATE CARBON MONOXIDE STANDARD:	266.104(c)							
Stack gas CO may exceed 100ppmv provided stack gas HC do not exceed 20 ppmv except as provided by 266.104(f).	266.104(c)(1)							
HC must be established on hourly rolling hourly average, and reported as propane, continuously corrected to 7% O_2, dry basis.	266.104(c)(2)							
HC shall be continuously monitored.	266.104(c)(3)							
Procedure for alternative CO standard has to be established during trail burn	266.104(c)(4)							
SPECIAL REQUIREMENTS FOR FURNACES WHICH FEED WASTE SOLELY AS AN INGREDIENT AT LOCATIONS OTHER THAN THE "HOT" END MUST MEET HC LIMIT	266.104(d)							
CONTROL FOR DIOXINS AND FURANS:								
BIFs equipped with dry PM control that operate w/in temp. range of 450-750 EF-includes emissions testing for dioxins and furans must conduct a site specific risk assessment	266.104(e) D:270.22(a)(6)							
MONITORING CO AND HC IN THE BY-PASS DUCT OF A CEMENT KILN	266.104(f)							
USE OF EMISSIONS TESTING DATA TO DEMONSTRATE COMPLIANCE AND ESTABLISH OPERATING LIMITS	266.104(g) D:270.22(a)(6)							
PARTICULATE MATTER (PM) EMISSIONS CONTROL:	266.105 266.102(e)(3)							
May not exceed 180 mg/dscf (0.08 grains/dscf) corrected for 7% O_2;	266.105(a) D:270.22(a)(6)							
Exempt from PM standard if requirements of low risk waste exemption met in 266.109(b);	266.105(b) 270.22(a)(4) D:270.22(a)(6)							
METAL EMISSIONS CONTROLS:	266.106							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Tier 1 feed rate screening limits for metals are specified in Part 266 Appendix 1 as a function of TESH, terrain type, and land use - No test required:	266.106(b) 270.22(a)(3) D:270.22(a)(6)							
Noncarcinogenic metals in all feed streams (HW, fuel and industrial furnace feed stock);	266.106(b)(1) D:270.22(a)(6)							
Carcinogenic metals in all feed streams HW, fuel and industrial furnace feed stock;	266.106(b)(2) D:270.22(a)(6)							
TESH - Terrain -adjusted effective stack height determined;	266.106(b)(3) D:270.22(a)(6)							
Terrain type - Noncomplex or Complex;	266.106(b)(4) D:270.22(a)(6)							
Land use - urban or rural;	266.106(b)(5) D:270.22(a)(6)							
Multiple stacks - all emissions from calculated worst-case stack;	266.106(b)(6) D:270.22(a)(6)							
Tier II emission rate screening limits for metals are specified in Part 266 Appendix I as a function of: TESH, terrain type, and land use. Test required:	266.106(c) D:270.22(a)(6)							
Noncarcinogenic metals;	266.106(c)(1) D:270.22(a)(6)							
Carcinogenic metals;	266.106(c)(2) D:270.22(a)(6)							
Emission rate limits must be implemented by limiting feed rates of metals to trial burn levels, total feed rate per 266.102(e)(6);	266.106(c)(3) D:270.22(a)(6)							
Terrain-adjusted effective stack height, good engineering practice stack height, terrain type, land use, and eligibility criteria in 266.106(b) apply	266.106(c)(4)							
Multiple stacks - all emissions from calculated worst-case stack.	266.106(c)(5) D:270.22(a)(6)							
Tier III and adjusted Tier I site specific risk assessment - Test required:	266.106(d) D:270.22(a)(6)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Metals control must be demonstrated by testing using air dispersion modeling to predict the maximum annual average off-site ground level concentration and that acceptable ambient levels are not exceeded;	266.106(d)(1) D:270.22(a)(6)							
Acceptable ambient levels listed in Part 266 Appendices IV and V;	266.106(d)(2) D:270.22(a)(6)							
Carcinogenic metals - sum of the ratios of the predicted maximum annual average off-site ground level concentration to RSDs shall not exceed 1.0;	266.106(d)(3) D:270.22(a)(6)							
Noncarcinogenic metals - predicted maximum annual average ground level concentration or each metal shall not exceed the RAC;	266.106(d)(4) D:270.22(a)(6)							
Multiple stacks - Must perform emissions testing and dispersion modeling to demonstrate aggregate emissions from all stacks do not exceed acceptable ambient levels;	266.106(d)(5) D:270.22(a)(6)							
Feed rate limits set to levels during TB or conformance.	266.106(d)(6) D:270.22(a)(6)							
Adjusted Tier 1 feed rate screening limits - determined using Part 266 Appendix I screening limit and site-specific dispersion modeling - No test required.	266.106(e) D:270.22(a)(6)							
Alternative Tier or III implementation approaches.	266.106(f) D:270.22(a)(6)							
Emission testing for metals shall be conducted using the Multiple Metals Train as described in Part 266 Appendix IX.	266.106(g) D:270.22(a)(6)							
Metal testing shall be conducted using Method 0060.	266.106(g)(1)							
Hexavalent Chromium – Chromium Emissions are assumed to be hexavalent chromium unless emission testing is conducted using Method 0061.	266.106(g)(2)							
Dispersion modeling	266.106(h)							
HCl & Cl_2 EMISSIONS STANDARDS	266.107 D:270.22(e)(5)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Tier 1 feed rate screening limits - Feed rate screening limits specified in Part 266 Appendix II as a function of TESH, Terrain type, and land use - Analysis required: Feed rate of total chlorine and chloride, organic and inorganic, in HW, fuels and industrial furnace feed stocks:	266.107(b)(1) 270.22(a)(5) D:270.22(a)(6)							
Tier II emissions rate screening limits - Emission rate screening limits specified in Part 266, Appendix III as a function of TESH, Terrain type, and land use - emission test required.	266.107(b)(2) D:270.22(a)(6)							
Terrain-adjusted effective stack height, good engineering practice stack height, terrain type, land use, and eligibility criteria in 266.106(b) apply	266.107(b)(3) D:270.22(a)(6)							
Multiple stacks - If more than one on-site stack from a BIF, the incinerator or other treatment unit is subject to control HCl and Cl_2 under RCRA permit or interim status and must comply Tier I and II screening limits.	266.107(b)(4) D:270.22(a)(6)							
Tier III Site - Specific Risk Assessments - Emissions test required:	266.107(c)							
Emission rate for HCl and Cl_2 - demonstrated by using air dispersion modeling to predict the maximum annual average off-site ground level concentration for HCl and Cl_2 and demonstrate that acceptable ambient levels are not exceeded;	266.107(c)(1) D:270.22(a)(6)							
Acceptable ambient levels are listed in Part 266 Appendix IV for HCl and Cl_2;	266.106(c)(2) D:270.22(a)(6)							
Multiple stacks - must demonstrate that aggregate emissions for all on-site stacks do not exceed acceptable ambient levels;	266.107(c)(3) D:270.22(a)(6)							
Averaging periods defined in 266.102(e)(6).	266.107(d) D:270.22(a)(6)							
Adjusted Tier 1 feed rate screening limits - No test required.	266.107(e) D:270.22(a)(6)							
Emission testing - HCl and Cl_2 sampling shall be conducted using the procedures described in Part 266 Appendix IX.	266.107(f) D:270.22(a)(6)							

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			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Dispersion modeling per 40 CFR 266.106(h).	266.107(g)							
QAPP	Guidance							
ADDITIONAL DATA FOR DATA IN LIEU OF TESTING (DILO):	270.22(a)(6)							
Comparison of wastes description and analysis;	270.22(a)(6)(i)(A)							
Comparison of design and operating conditions as required by 270.66 - for both devices;	270.22(a)(6)(i)(B)							
Data QA/QC for Data Validation including Chromatograms, Chain of Custody, Sample Preservation Records, Laboratory Notes, etc.;	270.22(a)(6)(i)(C) Guidance EPA Publication: SW-846							
Other Information for Comparison including, but not limited to, Engineering Drawings, including boiler, combustion chamber, air pollution control devices, sampling ports and access, PED, PI&D, elevations and plan views, instrument/control measurement locations, piping, containment, vessels, specifications, and calculations, all sealed, signed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number.	270.22(a)(6)(i)(C)							
STANDARDS FOR DIRECT TRANSFER	266.111r							
The regulations in this section apply to owners and operators of boilers and industrial furnaces subject to §§ 266.102 or 266.103 if hazardous waste is directly transferred from a transport vehicle to a boiler or industrial furnace without the use of a storage unit.	266.111(a) and (b)							
General operating requirements	266.111(c)							
No direct transfer of a pumpable hazardous waste shall be conducted from an open-top container to a boiler or industrial furnace.	266.111(c)(1)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Direct transfer equipment used for pumpable hazardous waste shall always be closed, except when necessary to add or remove the waste, and shall not be opened, handled, or stored in a manner that may cause any rupture or leak.	266.111(c)(2)							
The direct transfer of hazardous waste to a boiler or industrial furnace shall be conducted so that it does not:	266.111(c)(3)							
Generate extreme heat or pressure, fire, explosion, or violent reaction;	266.111(c)(3)(i)							
Produce uncontrolled toxic mists, fumes, dusts, or gases in quantities to threaten human health;	266.111(c)(3)(ii)							
Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions;	266.111(c)(3)(iii)							
Damage the structural integrity of the container or direct transfer equipment containing the waste;	266.111(c)(3)(iv)							
Adversely affect the capability of the boiler or industrial furnace to meet the standards provided by §§ 266.104 through 266.107; or	266.111(c)(3)(v)							
Threaten human health or the environment.	266.111(c)(3)(vi)							
Hazardous waste shall not be placed in direct transfer equipment if it could cause the equipment or its secondary containment system to rupture, leak, corrode, or otherwise fail.	266.111(c)(4)							
The owner or operator of the facility shall use appropriate controls and practices to prevent spills and overflows from the direct transfer equipment or its secondary containment systems. These include at a minimum:	266.111(c)(5)							
Spill prevention controls (e.g., check valves, dry discount couplings); and	266.111(c)(5)(i)							
Automatic waste feed cutoff to use if a leak or spill occurs from the direct transfer equipment.	266.111(c)(5)(ii)							

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			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Areas where direct transfer vehicles (containers) are located. Applying the definition of container under this section, owners and operators must comply with the following requirements:	266.111(d)							
The containment requirements of § 264.175 of this chapter;	266.111(d)(1)							
The use and management requirements of subpart I, part 265 of this chapter, except for §§ 265.170 and 265.174, and except that in lieu of the special requirements of § 265.176 for ignitable or reactive waste, the owner or operator may comply with the requirements for the maintenance of protective distances between the waste management area and any public ways, streets, alleys, or an adjacent property line that can be built upon as required in Tables 2-1 through 2-6 of the National Fire Protection Association's (NFPA) "Flammable and Combustible Liquids Code," (1977 or 1981), (incorporated by reference, see § 260.11). The owner or operator must obtain and keep on file at the facility a written certification by the local Fire Marshall that the installation meets the subject NFPA codes; and	266.111(d)(2)							
The closure requirements of § 264.178 of this chapter.	266.111(d)(3)							
Direct transfer equipment must meet the following requirements:	266.111(e)							
Owners and operators shall comply with the secondary containment requirements of § 265.193 (a), (d), (e), and (i) as follows:	266.111(e)(1)							
For all new direct transfer equipment, prior to their being put into service; and	266.111(e)(1)(i)							
For existing direct transfer equipment within 2 years after August 21, 1991.	266.111(e)(1)(ii)							
Requirements prior to meeting secondary containment requirements.	266.111(e)(2)							

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			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Existing direct transfer equipment that does not have secondary containment, the owner or operator shall determine whether the equipment is leaking or is unfit for use and shall obtain and keep on file a written assessment reviewed and certified by a qualified, registered professional engineer in accordance with § 270.11(d) of this chapter.	266.111(e)(2)(i)							
Determine whether the direct transfer equipment is adequately designed and has sufficient structural strength and compatibility with the waste(s) to ensure that it will not collapse, rupture, or fail. At a minimum, this assessment shall consider the following:	266.111(e)(2)(ii)							
Design standard(s) to which the direct transfer equipment was constructed;	266.111(e)(2)(ii)(A)							
Hazardous characteristics of the waste(s) that have been or will be handled;	266.111(e)(2)(ii)(B)							
Existing corrosion protection measures;	266.111(e)(2)(ii)(C)							
Documented age of the equipment (otherwise, an estimate of the age); and	266.111(e)(2)(ii)(D)							
Results of a leak test or other integrity examination so that effects of temperature variations, vapor pockets, cracks, leaks, corrosion, and erosion are accounted for.	266.111(e)(2)(ii)(E)							
If the direct transfer equipment is found to be leaking or unfit for use, the owner or operator shall comply with the requirements of §§ 265.196 (a) and (b) of this chapter.	266.111(e)(2)(iii)							
Inspections and recordkeeping.	266.111(e)(3)							
The owner or operator must inspect at least once each operating hour when hazardous waste during transferred from the transport vehicle (container) to the B/IF:	266.111(e)(3)(i)							

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			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Overfill/spill control equipment to ensure it is in good working order;	266.111(e)(3)(i)(A)							
The above ground portions of the direct transfer equipment to detect corrosion, erosion, or releases of waste; and	266.111(e)(3)(i)(B)							
Data from monitoring equipment and leak-detection equipment to ensure that the direct transfer equipment is being operated according to its design.	266.111(e)(3)(i)(C)							
The owner or operator must inspect cathodic protection systems, if used, for proper functioning according to the schedule provided by § 265.195(b:	266.111(e)(3)(ii)							
Records of inspections made under this paragraph shall be maintained in the operating record at the facility, available for inspection at least 3 years from the inspection date.	266.111(e)(3)(iii)							
Design and installation of new equipment. Must comply with § 265.192.	266.111(e)(4)							
Response to leaks or spills must comply with § 265.196.	266.111(e)(5)							
Owners and operators must comply with § 265.197 for Closure, except for § 265.197 (c)(2) through (c)(4).	266.111(e)(6)							
J. Drip Pads	335.152(a)(15) 264 subpart W							
A Drip Pad Engineering Report must be submitted which at a minimum includes the following:	264.570-573 270.26							
1. Is Table V.J.1 completed and submitted in hard copy and editable electronic format?	270.26(a)							
2. Is Table V.J.2 completed and submitted in hard copy and editable electronic format?								
3. Detailed plans and engineering report								
The engineering report must address:								
Design characteristics:	264.573 270.26(c)(1)							
Constructed of non-earthen materials;	264.573(a)(1)							

DESCRIPTION	HW REGULATION(S) (305 & 335 are state & 260 – 270 are federal)	NA	SUBMITTED		TECHNICALLY ADEQUATE		LOCATION OF INFORMATION	COMMENTS OR VARIANCE
			Y	N	Y	N		
V. ENGINEERING REPORTS								
Sloped to free-drain treated wood drippage, rain, and other waters or solutions;	264.573(a)(2)							
Curb or berm around the perimeter;	264.573(a)(3)							
Hydraulic conductivity of less than or equal to $1x10^{-7}$ cm/s;	264.573(a)(4)(i)							
Sufficient strength and thickness.	264.573(a)(5)							
For artificial liners:								
a. Seaming method;								
b. Surface preparation method:								
c. Tensile strength;								
d. Impact resistance;								
e. Compatibility Demonstration;								
f. Foundation design (settlement potential, bearing capacity/stability and potential for bottom heave blow-out);								
For leakage collection system:								
g. Capacity of system:								
1) Rate of leakage removal;								
2) Capacity of sumps;								
3) Thickness of mounding & maximum hydraulic head.								
h. Pipe material and strength;								
i. Pipe network spacing and grading;								
j. Collection sump material and strength;								
k. Drainage media specifications & performance;								
l. Analysis that shows pipe and pipe perforation size will prevent clogging; and								
m. Compatibility demonstration.								
Description of leak detection system (applies only if drip pads are constructed after 12/24/92 per 264.570(a).	270.26(c)(3)							
How drip pad will be maintained;	270.26(c)(4)							

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			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Description of the collection system;	270.26(c)(5)							
Control of run-on;	270.26(c)(6)							
Control of run-off;	270.26(c)(7)							
When drippage will be removed from collection system to prevent overflow;	270.26(c)(8)							
Procedures for cleaning the drip pad (at least weekly);	270.26(c)(9)							
Operating practices and procedures;	264.573 270.26(c)(10)							
Removal procedures for waste;	270.26(c)(11)							
Collection and holding units for run-on/off are emptied;	270.26(c)(12)							
Process equipment used if treatment is carried out on the drip pad;	270.26(c)(13)							
Inspection requirements in accordance with 264.573 and 270.14(b)(5)	270.26(c)(14)							
Description of how HW residues and contaminated materials will be removed from Drip Pads at closure;	270.26(c)(16)							
Applicant may elect to comply with 264.572(b) instead of 264.572(a), the drip pad must have:	264.573(b)							
Synthetic liner installed below the drip pad. The liner must have: sufficient thickness and strength, foundation capable of supporting; and installed to cover all surrounding land that could come into contact with waste.	264.573(b)(1)							
Leakage detection system installed above the liner and must be/have:	264.573(b)(2)							
Chemically resistant;	264.573(b)(2)(i)(A)							
Sufficient strength and thickness;	264.573(b)(2)(i)(B)							
Prevention of clogging;	264.573(b)(2)(ii)							
Designed to detect failure.	264.573(b)(2)(iii)							
Leakage detection system above the liner designed to collect leakage from the drip pad. Permittee must record, etc. any leakage collected;	264.573(b)(3)							
Drip pads must be free of cracks, gaps, corrosion or other deterioration.	264.573(c)							

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			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Must be designed to convey, drain, and collect liquid resulting from drippage or precipitation to prevent run-off.	264.573(d)							
Unless protected by structure described in 264.570 (b). Drip pads must have run-on control system (TCEQ recommends 25-yr, 24-hr rainfall event).	264.573(e)							
Unless protected by structure described in 264.570 (b). Drip pads must have run-off control system (TCEQ recommends 25-yr, 24-hr rainfall event).	264.573(f)							
Overflow prevention.	264.573(h)							
Inspection frequency.	264.573(i)							
All HW held on drip pad until drippage ceases.	264.573(k)							
Run-on/off removed ASAP after storms.	264.573(l)							
Management of release of HW from the drip pad: Plan of removing wastes, caused by a release of HW (e.g., leakage from leak detection system) permittee must:	264.573(m) 264.573(m)(1)							
Enter a record of discovery;	264.573(m)(1)(i)							
Remove the portion of the drip pad;	264.573(m)(1)(ii)							
Steps necessary to repair and clean-up;	264.573(m)(1)(iii)							
Notify the Regional office and Ex. Director.	264.573(m)(1)(iv)							
Maintain records in the facility.	264.573(o)							
Assessment of existing pad integrity: including written plan for upgrading, repairing and modifying to meet the requirements of 264.573(b) and PE certification	264.571							
Certification requirements sealed, signed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number.;	264.571(a) 264.573(a)(4)(ii) 264.573(g) 264.573(m)(3) 270.26(c)(15)							
K. Miscellaneous Units	335.152(a)(16) 270.23							
A Miscellaneous Unit(s) Engineering Report must be submitted which at a minimum includes the following:	264.600 - 602							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
1. Is Table V.K completed and submitted in hard copy and editable electronic format?								
2. Application information may include design requirements of 305 and 335 and 264 subparts I through O; Part 270; Part 63, subpart EEE; and Part 146, as appropriate.	264.601(a)							
3. For units which involves combustion, emission data or trial burn plan must complete Tables V.H.1-5 (for incinerators) or Tables V.I.1-5 (for BIFs).								
The Engineering Report should also include:								
Air Quality Addendum should be completed, Section IX of Part B.								
Plans and description of the design, construction, and operation of the miscellaneous units.								
Physical characteristics of materials in construction of the miscellaneous unit.								
Must address prevention of releases to groundwater or subsurface environment:	264.601(a)							
Amount, characteristics potential migration of wastes;	264.601(a)(1)							
Hydrogeologic/geologic of the unit and area;	264.601(a)(2)							
Quality of groundwater;	264.601(a)(3)							
Quantity and flow direction;	264.601(a)(4)							
Proximity to groundwater users and rates;	264.601(a)(5)							
Land use;	264.601(a)(6)							
Potential to affect surface waters;	264.601(a)(7)							
Potential for health risks; and	264.601(a)(8)							
Potential for damage by exposure.	264.601(a)(9)							
Prevention of adverse effects through surface water considering:	264.601(b)							
Amount and characteristics of wastes;	264.601(b)(1)							
Confining and collecting systems;	264.601(b)(2)							
Hydrogeologic characteristics & topography of unit & area;	264.601(b)(3)							
Patterns of precipitation;	264.601(b)(4)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Quality, quantity, direction of groundwater flow;	264.601(b)(5)							
Proximity to surface waters & soils;	264.601(b)(6)							
Uses & quality standards for surface waters;	264.601(b)(7)							
Quality of surface waters & soils;	264.601(b)(8)							
Land use;	264.601(b)(9)							
Potential for health risks; and	264.601(b)(10)							
Potential for damage by exposure.	264.601(b)(11)							
Prevention of releases through air:	264.601(c)							
Amount & characteristics of waste;	264.601(c)(1)							
Effectiveness of systems to prevent emissions;	264.601(c)(2)							
Operating characteristics;	264.601(c)(3)							
Meteorologic & topographic characteristics surrounding area;	264.601(c)(4)							
Local air quality;	264.601(c)(5)							
Potential for health risks; and	264.601(c)(6)							
Potential for damage by exposure.	264.601(c)(7)							
Monitoring, analysis, inspection, response, reporting and corrective action.	264.602							
Detailed hydrologic, geologic, and meteorologic assessments and land use maps.	270.23 (b)							
Exposure information.	270.23(c)							
Laboratory testing area.	270.23(d)							
Any additional information determined by the Director for evaluation of unit and environmental performance standards of 264.100(b).	270.23(e)							
Detailed plans and specifications individually sealed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number	305.50(a)(7)							
L. Containment Buildings	335.152(a)(20) 264 Subpart DD							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
A Miscellaneous Unit(s) Engineering Report must be submitted which at a minimum includes the following:	264.1100-1101(c)(3) & 264.1101(d-e)							
Is Table V.L completed and submitted in hard copy and editable electronic format?								
Plans and description of the design, construction, and operation of the containment building	264.1101							
Completely enclosed to prevent precipitation, wind, and run-on.	264.1101(a)(1)							
Should be constructed with structural strength and thickness and address:	264.1101(a)(2)							
Primary barrier against fugitive dust emissions;	264.1101(a)(2)(i)							
Ability to prevent wastes from migration;	264.1101(a)(2)(ii)							
Compatibility data; and	264.1101(a)(3)							
The primary barrier.	264.1101(a)(4)							
Containment buildings used to manage wastes containing free liquids should have:	264.1101(b)							
Primary barrier to prevent migration; and	264.1101(b)(1)							
Liquid collection and removal system (e.g. geomembrane covered by a concrete surface) that is sloped to drain liquids and minimize hydraulic head on the containment system at the earliest practicable time.	264.1101(b)(2)							
Secondary containment system including secondary barrier and leak detection system constructed with:	264.1101(b)(3)							
A bottom slope of 1% or more;	264.1101(b)(3)(i)(A)							
Granular drainage material with hydraulic conductivity of $1x10^{-2}$ cm/s or more and a thickness of 12 in. or constructed with synthetic or geonet with transmissivity of $3x10^{-5}$ m^2/s or more; and	264.1101(b)(3)(i)(B) 264.1101(b)(3)(ii)							
Materials that are chemically resistant.	264.1101(b)(3)(iii)							
Controls and practices to ensure containment of HW within the unit, at a minimum must address or contain:	264.1101(c)(1)							
Primary barrier: free of cracks, gaps, corrosion or other deterioration;	264.1101(c)(1)(i)							

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			Y	*N*	*Y*	*N*		
V. ENGINEERING REPORTS								
Maintain level of stored treated HW within the containment walls;	264.1101(c)(1(ii)							
Measures to prevent tracking of HW outside of the unit;	264.1101(c)(1)(iii)							
Measures to control fugitive air emissions;	264.1101(c)(1)(iv)							
Certification signed by a licensed PE that the building meets the design requirements.	264.1101(c)(2)							
Procedures in case of release or repair of the unit.	264.1101(c)(3)							
For containment buildings that contain areas with and without a secondary containment system permittee must address:	264.1101(d)							
Design and operation in accordance with 246.1101(a-c);	264.1101(d)(1)							
Prevent release of liquids; and	264.1101(d)(2)							
Maintain facility's operating log.	264.1101(d)(3)							
Waiver requirements for secondary containment.	264.1101(d)(e)							
Detailed plans and specifications individually sealed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number	305.50(a)(7)							

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			Y	*N*	*Y*	*N*		
VI. GEOLOGY REPORT								
All submitted geoscience work signed and dated by a licensed professional geoscientist with current Texas registration along with the Registered Geoscience Firm's name and Registration Number	Texas Geoscience Practice Act, and 22 TAC 851 Subchapter D 305.50(a)(4)(D) 305.50(a)(6) 305.50(b)(6)							
A. Geology and Topography								
1. Active geologic processes								
a. Identification of faults, active potentially active or inactive, applicant must submit or address:								
Holocene sediments or man-made structures have been displaced;								

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
VI. GEOLOGY REPORT								
Describe techniques used to identify faults;								
Zones of significant surface deformation;								
Effects of active faults on potential for waste migration;								
Clearance from active fault to ensure liners will not be disrupted.								
For capacity expansion of an existing HW facility, the applicant must submit or address:	305.50(a)(4)(D) 305.50(a)(10)(E)							
1) Geologic literature review (should include maps of surface faults, subsurface structure maps, field investigations, etc.);								
2) Descriptions and maps of faulting, fracturing, and lineations in the area;								
3) Constructed maps and cross-sections of the area, using surface data i.e., surface faults, gas seeps, linerations, etc. A surface structure map should also be included;								
4) Minimum of 2 structural X-sections that show geologic units which show Holocene sediments underground sources of drinking water, and lithology, and on a scale to depict the local geology within 3000' of the location. Cross sections should cross at the unit location.								
5) Minimum of 2 structural subsurface maps; one should be made on the shallowest mapable subsurface marker, the other made on a deeper horizon.								
6) Field surveillance; to check for potential faults/lineations indicated by aerial photos, topographic maps, seismic/subsurface maps, etc.								
7) Any additional information in defining the geology of the area, such as seismic data, isopachs, potentiometric surface maps, etc.								
8) Demonstration that a fault within 3000 ft. of location has not had displacement with Holocene times. If such a fault exists, cannot pass within 200 feet of surface unit.								

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			Y	*N*	*Y*	*N*		
VI. GEOLOGY REPORT								
9) If fault that has been active within Holocene and is located within 3000 ft., it must be demonstrated that: the fault is not transmissive and will not allow groundwater movement; and that there is no potential for subsidence that may endanger the stability of the surface unit.								
b. A discussion of the extent of land surface subsidence in the vicinity of the facility including total recorded subsidence and past and projected rates subsidence. For facilities at low elevations along the coast, must address the rates of subsidence and potential for future submergence beneath Gulf water.								
c. A discussion to which the facility is subject to erosion such as over-land flow, channeling, gullying, other fluvial processes, and shoreline erosion.								
d. Is Table VI.A.1 completed and submitted in hard copy and editable electronic format?								
2. Regional Physiography and Topography (applicable for land base units, except waste piles exempt from GW monitoring requirements, and tanks which require contingent post-closure plan)								
a. Distance and direction to nearest surface water body								
b. Slope of land surface								
c. Direction of slope								
d. Maximum elevation of facility								
e. Minimum elevation of facility								
3. Regional Geology (applicable for land base units, except waste piles exempt from GW monitoring requirements and tanks which require contingent post-closure plan) This section should provide a description of the regional geology of the area which should include:								
a. A geologic map with text describing stratigraphic and lithologic properties; and								
b. A description of generalized stratigraphic column from the base of lowermost groundwater to surface (at least 1,000 ft.) The description for each geologic unit should include:								
Geologic age;								

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			Y	*N*	*Y*	*N*		
VI. GEOLOGY REPORT								
Lithology;								
Thickness;								
Depth;								
Geometry;								
Hydraulic conductivity; and								
Depositional history.								
4. Subsurface Soils Investigation Report								
a. Borings and boring logs:								
Completed using established exploration methods;								
Investigative procedures discussed in report:								
Sufficient number to establish stratigraphy and assess potential pathways of pollution migration;								
Identify uppermost and underlying hydraulically interconnected aquifers;								
Should penetrate through the uppermost aquifer and deep enough to identify lower aquiclude;								
Completed to depth of at least 30 ft. below the deepest unit excavation;								
Detailed description of stratigraphic complexities, i.e. slickensides, pinch outs, fractures, etc.;								
Whenever possible, electric logs should run on each borehole;								
Hollow stem auger test run where determination of initial water level is important;								
Key on boring log giving description of soil type and its consistency and structure.								
b. Minimum of two cross-sectional drawings prepared from the borings depicting the generalized soil strata at the site.								
c. A text which describes investigator's interpretations of subsurface stratigraphy based on field investigation.								
d. Is Table VI.A.4 completed and submitted in hard copy and editable electronic format? The report should address:								
Laboratory /field tests;								
Test procedures;								

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			Y	*N*	*Y*	*N*		
VI. GEOLOGY REPORT								
Major strata encountered characterized by;								
Unified soil classification;								
Moisture content;								
% less than #200 sieve;								
Atterberg limits;								
Coefficient of permeability.								
Field permeability tests for sand and silt units to supplement laboratory tests;								
Particle size distribution and relative density based on penetration resistance (for coarse-grained soils);								
For fine-grained soils: cohesive shear strength based on penetrometer of unconfined compression tests, dry unit weight, and degree of saturation.								
e. For land treatment units:								
1) Name and description of soil series;								
2) Physical properties of the series (i.e., depth, permeability, water capacity, soil ph erosion factors;								
3) Engineering properties and classifications i.e., USDA Texture, Unified Soil classification , size gradation, Atterberg limits;								
4) Cation exchange capacity (CEC) of soils in meq/100g.								
Aerial photograph of soil series on land treatment area, must be submitted; if not available, a soil series map.								
B. Facility Ground-Water								
1. Description of Regional Aquifers;								
a. Aquifers and associated geologic units as described in Sect. VI.A.3.b.;								
b. Constituent materials of the aquifer(s);								
c. Water-bearing and transmitting properties;								
d. Water table or artesian conditions;								
e. If aquifers are hydraulically connected;								
f. Regional water table contour map or potentiometric surface map;								
g. Rate of groundwater flow, ft./yr estimated;								

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			Y	*N*	*Y*	*N*		
VI. GEOLOGY REPORT								
h. TDS values;								
i. Identification areas of recharge to the aquifers (for new land based units must include hyrdogeologic report);								
j. Present use of groundwater.								
Identification of aquifers for each well within 1 mile. Paragraph III.C.1.e of the Part A permit application should be updated.								
2. Groundwater conditions for each land based unit which requires post-closure care specified in 335. 156-167. The application should also include:								
a. Records of water level measurements in borings (noted on logs and X-Sections) should be taken at time of boring and after equilibration (at least 24-hrs.);								
b. Historic maximum and minimum static water level;								
c. Upper and lower limits of the uppermost and hydraulically connected aquifers;								
d. Site specific water table contour or potentiometric surface map for each aquifer encountered. Ground-water flow direction and rate should be calculated;								
e. Discussion of the variation of hydraulic gradient across site. Calculations of maximum, minimum, and average ground-water flow velocities, and pump test data (where appropriate);								
f. Analysis of likely pathways for pollutant migration.								
3. Description of the detection monitoring program	EPA Publications: (530-SW-89-026) 625/6-90/016b SW-846 RCRA Groundwater Monitoring 1992, OSWER Directive 9950.1							
a. The groundwater monitoring system must have/address:								
Sufficient number of wells at justified location and depths;	335.163(1)							
Background water not affected by leakage from regulated unit:	335.163(1)(A)							

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			Y	*N*	*Y*	*N*		
VI. GEOLOGY REPORT								
Determination of background quality;	335.163(1)(A)(i)							
Sampling at other wells.	335.163.(1)(A)(ii)							
Represent the quality of background water passing the POC;	335.163(1)(B)							
Detection of contamination migrated from HWM unit;	335.163(1)(C)							
HWM area that contains more than one regulated unit, separate groundwater not required;	335.163(2)							
All wells cased to maintain integrity of borehole;	335.163(3)							
Sampling and analysis procedures must include at a minimum:	335.163(4)							
Sample collection procedures;	335.163(4)(A)							
Sample preservation and shipment;	335.163(4)(B)							
Analytical procedures;	335.163(4)(C)							
Chain of custody control.	335.163(4)(D)							
Appropriate and accurate sampling analytical methods;	335.163(5)							
Determination of groundwater surface elevation each time groundwater is sampled;	335.163(6)							
Number and kind of samples collected:	335.163(7)							
A sequence of at least 4 samples taken at an interval;	335.163(7)(A)							
A proposed alternate sample procedure.	335.163(7)(B)							
Statistical methods:	335.163(8)							
Parametric analysis of variance (ANOVA);	335.163(8)(A)							
Non-parametric ANOVA (based on ranks);	335.163(8)(B)							
Tolerance or prediction interval procedure;	335.163(8)(C)							
Control chart approach;	335.163(8)(D)							
Alternative approach approved by ED.	335.163(8)(E)							
Any statistical method chosen under 335. 163(8), must meet the performance standard as appropriate:	335.163(9)							
Be appropriate to the distribution of chemical parameters and hazardous constituents;	335.163(9)(A)							
Test under Type 1 error level no less than 0.01 for each testing period;	335.163(9)(B)							

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			Y	*N*	*Y*	*N*		
VI. GEOLOGY REPORT								
Control chart approach;	335.163(9)(C)							
If tolerance interval or prediction interval is used: the report must include levels of confidence, tolerance intervals, and % population;	335.163(9)(D)							
PQL;	335.163(9)(E)							
Procedures to control or correct seasonal and spatial variability.	335.163(9)(F)							
Groundwater monitoring data must be maintained at the facility operating record.	335.163(10)							
Detection monitoring program must establish:	335.164							
Indicator parameters, waste constituents, reaction products to be monitored;	335.164(1)							
Types, quantities, and concentrations of constituents;	335.164(1)(A)							
Mobility, stability, and persistence of waste constituents or reaction products in the unsaturated zone;	335.164(1)(B)							
Detection of indicator parameters.	335.164(1)(C)							
Concentrations or values and coefficients of variation of proposed monitoring parameters or constituents in the background.	335.164(1)(D)							
Groundwater monitoring system at the compliance point specified under 335.161.	335.164(2)							
Chemical parameter and hazardous constituents per 335.163(7).	335.164(3)							
Background groundwater concentration values for proposed parameters.	335.164(3)(A-C)							
Frequencies for collecting samples and conducting statistical tests.	335.164(4)							
Statistically significant increase in any constituent or parameter identified at any compliance point monitoring well.	335.164(6-7)							
b. Has a justification for the selection of proposed suite of waste specific parameters specified in Table VI.B.3.c. been submitted?								
c. Has a proposed sampling and analysis plan been submitted? It must include:								
Sampling and analytical methods								
Statistical comparison procedures								

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
VI. GEOLOGY REPORT								
Alternate methods demonstrated as appropriate for groundwater analysis	335.163(5)							
d. Is a specific statistical method and process for comparing constituent concentrations to background submitted? Must include:	335.163							
Sampling procedures must provide representative samples of the regulated activity in time and manner of sampling;								
All data submitted in a manner consistent with *TCEQ Quality Control and Assurance Project Plan for Monitoring and Measurement Activities Relating to RCRA and UIC (TCEQ QAPP)*								
e. Is Table VI.B.3.b completed and submitted in hard copy and editable electronic format?								
f. Is Table VI.B.3.c. completed and submitted in hard copy and editable electronic format? Specifying:								
1) The suite of waste specific parameters;								
2) The sampling frequencies and calendar intervals								
3) The analytical method and laboratory predicted detection limit and predicted Practical Quantitation limit of the analyses;								
4) The concentration limit which will be the basis for determining whether a release has occurred from the waste management unit/area;								
g. Drawings depicting the monitoring well design, current and proposed should be submitted.								
h. at least one map of the entire facility on one or more 8 1/2" X 11" sheets with a scale to show:								
1) Monitoring well location design, current and proposed;								
2) Soil-pore liquid and core sampling points, current and proposed;								
3) Waste management unit(s) area;								
4) Property boundary;								
5) Point of compliance;								
6) Direction of groundwater;								
7) Extent of any known plume of contamination.								
i. Has the statement been completed indicating :								

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			Y	*N*	*Y*	*N*		
VI. GEOLOGY REPORT								
Typical depth to groundwater in the uppermost aquifer;								
The name of the geological formation the uppermost aquifer is located in;								
The lithological description of the formation;								
The formation thickness;								
The general direction of groundwater flow.								
C. Exemption from Groundwater Monitoring								
No potential for migration of liquid from waste management unit to the upper most aquifer during active life of unit.	335.156(b)(4)							
Demonstration certified by qualified geologist or geotechnical engineer.	335.156(b)(4)							
The following should be addressed:								
1. Thickness of soil between the base of the unit and saturated zone;								
2. Thickness of saturated zone;								
3. Head pressure of the liquids;								
4. Properties of the saturated and unsaturated zone (including permeability, effective porosity, and homogeneity);								
5. Total life of facility.								
D. Unsaturated Zone Monitoring	264.278							
1. List of all hazardous constituents:	264.278(a)							
a. Current parameters;	264.278(a)							
b. Proposed parameters.	264.278(a)							
2. Number of soil-pore liquid sample points:	264.278(b)							
a. Depth of sample points;	264.278(b)							
b. Equipment used for soil-pore liquid monitoring.	264.278(b)							
3. Number of soil-core sampling points:								
a. Depth of soil-core sampling points;								
b. Indicate on a facility map location of all sampling points.								

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state &*	*NA*	*SUBMITTED*	*TECHNICALLY ADEQUATE*	*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*

	260 – 270 are federal)		***Y***	***N***	***Y***	***N***		
VII. CLOSURE AND POST-CLOSURE PLANS								
Has a closure plan and/or post-closure plan, as applicable, been submitted which includes the following information?	270.14(b)(13) 264 Subpart G. Chapter 350							
Certification of deed recordation of waste disposal activities shall be provided for closure of facilities with wastes in place;	335.5							
Survey plat and notices for land disposal unit closed before application; and	264.116 264.119							
Closure Performance Standards; Describes how closure would: minimize the need for further maintenance; control, minimize, or eliminate post-closure escape of hazardous waste, hazardous constituents, leachate, contaminated run-off, or hazardous waste decomposition products to the ground or surface waters or to the atmosphere; and comply with the closure requirements of Subpart G and unit-specific closure requirements.	264.111							
A. Closure:								
Is Table VII.A completed and submitted in hard copy and editable electronic format								
Time and activities required for partial and final closure activities should include:	264.112(b)							
Description of closure of each unit;	264.112(b)(1)							
Final closure and maximum extent of operation;	264.112(b)(2)							
Maximum waste inventory over the active life of the facility;	264.112(b)(3)							
Inventory removal, disposal or decontamination of equipment , structures and soils;	264.112(b)(4)							
Detailed description of other activities during closure (i.e. ground-water monitoring, leachate collection, and run-on and run-off control);	264.112(b)(5)							
Schedule for closure of each unit and for final closure of the facility; and	264.112(b)(6)							
Estimate of expected year of final closure.	264.112(b)(7)							
Certification of Closure: A certification by the applicant which indicates that within 60 days of completion of closure of each hazardous waste surface impoundment, waste pile, land treatment, and landfill unit, and within 60 days of the completion of final closure, closure certification must be submitted to TCEQ IHW Section.	264.115							

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			Y	*N*	*Y*	*N*		
VII. CLOSURE AND POST-CLOSURE PLANS								
Closure of Containers	264.178							
All wastes and waste residues must be removed from containment system;	264.178							
Containers, liner, bases, and soil containing or contaminated with HW or residues must be decontaminated removed at closure.	264.178 350.32 Remedy Standard A							
Closure of Tank Systems	264.197							
Remove or decontaminate all waste residues, contaminated containment system components (liners, etc.), contaminated soils, structures and equipment contaminated with waste.	264.197(a) 350.32 Remedy Standard A							
If not all contaminated soils can be practically removed, perform closure and post-closure as a landfill per 264.310 and 350.33 Remedy Standard B.	264.197(b)							
A contingent closure and post-closure plan for closure as a landfill if tank system does not have satisfactory secondary containment per 264.193(b-f) and not granted variance for the secondary containment system per 264.193(g), the plan must include:	264.197(c) 350.33 Remedy Standard B							
Requirements under 264.197(a-b);	264.197(c)(1)							
Contingent post-closure care plan;	264.197(c)(2)							
Cost estimates for closure and post-closure care and contingent closure and post-closure plan;	264.197(c)(3)							
Financial assurance based on 264.197(c)(3);	264.197(c)(4)							
Must meet all financial responsibility requirements for landfills under 264, Subparts G and H.	264.197(c)(5)							
Closure of Surface Impoundments	335.169 264.228							
Remove and decontaminate all wastes and contaminated materials;	335.169(a)(1) 264.228(a)(1)							
Eliminate free liquid wastes or solidify/stabilize remaining materials;	335.169(a)(2) 264.228(a)(2)(i-ii)							
Final cover must be designed and constructed to:	264.228(a)(2)(iii)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
VII. CLOSURE AND POST-CLOSURE PLANS								
Provide long-term minimization of the migration of liquids through the closed impoundment.	335.169(a)(2)(A) 264.228(a)(2)(iii)(A)							
Minimize maintenance;	335.169(a)(2)(B) 264.228(a)(2)(iii)(B)							
Promote drainage and minimize erosion or abrasion;	335.169(a)(2)(C) 264.228(a)(2)(iii)(C)							
Accommodate settling and subsidence;	335.169(a)(2)(D) 264.228(a)(2)(iii)(D)							
Ensure that permeability is less than or equal to bottom liner system or natural sub-soil present.	335.169(a)(2)(E) 264.228(a)(2)(iii)(E)							
For clean closure, the closure plan must identify 350.32 Remedy Standard A	350.32 Remedy Standard A							
If wastes are left in place, applicant must comply with closure requirements for landfills per 264.310 and post closure per 264.117 through 264.120. The closure and post-closure plan must include:	335.169(b) 264.228(b) 350.33 Remedy Standard B.							
Maintaining the integrity and effectiveness of final cover including repairs of the cap;	335.169(b)(1) 264.228(b)(1)							
Maintenance and monitoring of leak detection system;	335.169(b)(2) 264.228(b)(2)							
Maintenance and monitoring of groundwater monitoring system;	335.169(b)(3) 264.228(b)(3)							
Prevention of erosion from run-on and run-off.	335.169(b)(4) 264.228(b)(4)							
If intend to remove wastes but do not have constructed liner system, contingent post-closure plan per 264.118 and cost estimates per 264.142 & 264.144 must be included.	335.169(c)							
Closure of Waste Piles	264.258							
Remove or decontaminate all wastes contaminated materials;	264.258(a) 350.32 Remedy Standard A							
If not all contaminated materials can be removed, applicant must close the waste pile as a landfill, and provide post-closure care plan per 264.310	264.258(b) 350.33 Remedy Standard B.							
If intend to remove wastes but do not have constructed liner system, contingent post-closure plan per 264.118 and cost estimates per 264.142 & 264.144 must be included.	264.258(c)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
VII. CLOSURE AND POST-CLOSURE PLANS								
Closure of Land Treatment Units	335.172 264.280							
During closure of land treatment facilities the owner or operator must comply with the following:								
Continue operations necessary to maximize degradation, transformation, or immobilization of hazardous constituents;	335.172(a)(1) 264.280(a)(1)							
Minimize run-off of hazardous constituents;	335.172(a)(2) 264.280(a)(2)							
Maintain run-on control system;	335.172(a)(3) 264.280(a)(3)							
Maintain run-off management system;	335.172(a)(4) 264.280(a)(4)							
Control wind dispersal of hazardous waste;	335.172(a)(5) 264.280(a)(5)							
Continue to comply with prohibitions and controls concerning food chain crops per 264.276;	335.172(a)(6) 264.280(a)(6)							
Continue unsaturated zone monitoring per 264.278; and	335.172(a)(7) 264.280(a)(7)							
Maintain vegetative cover.	335.172(a)(8) 264.280(a)(8)							
Submit closure certification per 264.115 signed by a licensed Geoscientist or PE.	335.172(b) 264.280(b)							
Closure of Landfills	335.174 264.310							
Plans and engineering report that describe the final cover components in detail. Cover installation and construction quality assurance procedures should be thoroughly described.	EPA Publication: 530-SW-85-014 TCEQ Technical Guidance No. 3							
Adequate cover, designed and constructed to:								
Long-term minimization of migration of liquids through the closed landfill.	335.174(a)(1) 264.310(a)(1)							
Function with minimum maintenance;	335.174(a)(2) 264.310(a)(2)							
Promote drainage and minimize erosion or abrasion of the cover;	335.174(a)(3) 264.310(a)(3)							

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
VII. CLOSURE AND POST-CLOSURE PLANS								
Accommodate settling and subsidence without loss of integrity; and	335.174(a)(4) 264.310(a)(4)							
Ensure that the permeability is less than or equal to bottom liner or natural subsoils, if unlined.	335.174(a)(5) 264.310(a)(5)							
For waste left in place, the closure plan must comply with applicable requirements of 30 TAC 350.33 Remedy Standard B.	350.33 Remedy Standard B.							
Closure of Incinerators	264.351							
All hazardous wastes and waste residues including ash, scrubber waters and scrubber sludges, and any structures or operating equipment such as pumps and valves, etc. must be removed from the incinerator site.	264.351 350.32 Remedy Standard A							
Closure of Drip Pads	264.575							
Remove or decontaminate all waste residues, contaminated containment system components (pads, liners, etc.), contaminated subsoils, and structures and equipment contaminated with waste and leakage.	264.575(a) 350.32 Remedy Standard A							
If not all subsoils can be decontaminated, post-closure care must be submitted per 264.310;	264.575(b) 350.33 Remedy Standard B.							
If unit has no liner system, contingent post-closure plan per 264.118 and cost estimate per 264.142 & 264.144 must be submitted.	264.575(c)							
Closure of Miscellaneous Units	335.152(a)(5)							
Closure plan must show that all hazardous waste and hazardous waste residues will be removed and decontaminated from the treatment process or discharge equipment process and discharge equipment structures.	350.32 Remedy Standard A							
If any wastes, waste residues or contaminated materials or soils will remain after closure, provide plans for closing the miscellaneous unit as a landfill in accordance with 264.310 and 350.33 Remedy Standard B that:	350.33 Remedy Standard B.							

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			Y	*N*	*Y*	*N*		
VII. CLOSURE AND POST-CLOSURE PLANS								
Minimizes need for further maintenance.	264.111(a)							
Provides protection of human health and the environment, prevents escape of hazardous waste, constituents, leachate, contaminated runoff, or hazardous waste decomposition products to the ground or surface waters or atmosphere .	264.111(b)							
Complies with any applicable requirements of 264.178, 264.197, 264.228, 264.258, 264.280, 264.310, 264.351, 264.601-603, and 264.1102.	264.111(c)							
Closure of Containment Buildings	264.1102							
Remove or decontaminate all waste residues, contaminated system components (liners, etc.), contaminated subsoils, structures and equipment.	264.1102(a) 350.32 Remedy Standard A							
If not all contaminated subsoils can be removed the operator must close the facility and perform post-closure care in accordance with closure and post-closure requirements that apply to landfills (264.310) and 350.33 Remedy Standard B.	264.1102(b) 350.33 Remedy Standard B.							
Closure of Boilers and Industrial Furnaces (BIF)	266.102(a)(2)(vii) 264.112(b)							
Remove all hazardous wastes, residues (including ash, scrubber waters, scrubber sludges) from the BIF including ductwork, piping, air pollution control equipment, sumps, and any other structures or operating equipment such as pumps, valves, etc. that have come in contact with hazardous wastes.	350.32 Remedy Standard A.							
B. Closure Cost Estimate (including contingent closure)	TCEQ Technical Guidance No.10 335.178 264.142							
Detailed cost estimate of closing the facility.								
Cost of closure at the most expensive point in the facilities operating life.	264.142(a)(1)							
1. Closure costs based on contractor bids (a copy of the bid specification and each contractor's response must be provided).								
2. Is Table VII.B completed and submitted in hard copy and editable electronic format Closure costs based on detailed analysis: cost of each item, equipment, third party labor and supervision, transportation, and analytical costs, etc.;								
3. Closure costs based on off-site shipment and disposal:	335.178							

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			Y	*N*	*Y*	*N*		
VII. CLOSURE AND POST-CLOSURE PLANS								
Maximum inventory of wastes;	335.178(1)							
Wastes generated during closure;	335.178(2)							
Contaminated storm water; and	335.178(3)							
Leachate.	335.178(4)							
4. Cost for closure under contingent closure plan is required for each surface impoundments, waste pile or tank system.								
C. Post-Closure								
Post-closure for 30 years	264.117(a)(1)							
1. The post-closure care plan for land treatment unit, landfill, surface impoundment, waste pile, miscellaneous unit, or tank system closed with wastes or waste constituents left in place or closed under contingent closure plan must identify the activities which will be performed and their frequencies; including the following:	264.118(b)							
Monitoring activities and frequency at which they will be performed during post-closure;	264.118(b)(1) 335.172(c) 264.280(c) 335.174(b) 264.310(b) 335.169(b) 264.228(b) 264.258(b) 264.603							
Description of the planned maintenance activities and frequencies of performing to ensure:	264.118(b)(2)							
Integrity of the cap and final cover or containment system;	264.118(b)(2)(i)							
Function of monitoring equipment.	264.118(b)(2)(ii)							
Maintain final cover;	335.174(b)(1) 264.310(b)(1)							
Continue to operate leachate collection system;	335.174(b)(2) 264.310(b)(2)							
Maintain and monitor the leak detection system ;	335.174(b)(3) 264.310(b)(3)							
Maintain and monitor groundwater/soil monitoring system;	335.174(b)(4)							

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			Y	*N*	*Y*	*N*		
VII. CLOSURE AND POST-CLOSURE PLANS								
Prevent run-on and run-off from eroding or damaging the cover;	335.174(b)(5)							
Protect and maintain surveyed benchmarks (as applicable) used in complying 264.309.	335.174(b)(6) 264.310(b)(6)							
Additional Post-closure for Land Treatment	264.280(c)							
During post-closure of land treatment facilities, the owner or operator must comply with the following:								
Continue all operations (including pH control);	264.280(c)(1)							
Maintain vegetative cover;	264.280(c)(2)							
Maintain run-on control system;	264.280(c)(3)							
Maintain run-off management system;	264.280(c)(4)							
Control wind dispersal of waste;	264.280(c)(5)							
Continue to comply with food-chain crops prohibitions; and	264.280(c)(6)							
Continue UZM and GW monitoring.	264.280(c)(7)							
Additional Post-closure for Miscellaneous Units	270.14(b)(13)							
Must comply with 264.601 during the post-closure care period. The post-closure plan under 264.118 must specify the procedures to satisfy this requirement. (For wastes closed in place, the plan must identify 350.33 Remedy Standard B.)	264.603							
2. Name, address, and phone number of the person or office to contact during post-closure period.	264.118(b)(3)							
3. A discussion of the future use of land associated with each unit.								
4. For landfills, surface impoundments, waste piles and land treatment areas closed under interim status must submit the required documentation of the notices under 264.119.	270.14(b)(14)							
5. If equivalency determination has not been made for landfills, surface impoundments, waste piles and land treatment areas, a copy of the demonstration documentation should be submitted. Complete Table VII.C.5. (Land-Based Units Closed Under Interim Status) for all land based units closed under interim status.	270.1(c)(5-6)							

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			Y	*N*	*Y*	*N*		
VII. CLOSURE AND POST-CLOSURE PLANS								
D. Post-closure cost estimate (except state and federal facilities)								
1. Is Table VII. D completed and submitted in hard copy and editable electronic format								
Detailed cost estimate of the annual cost of monitoring and maintenance	TCEQ Technical Guidance No.10							
2. Post closure cost estimate must:								
Assume costs of hiring third parties for all operations;	264.144(a)(1)							
Total annual cost of post-closure care and contingent post-closure care multiplied by 30 years.	264.144(a)(2)							
E. Closure and Post-closure Cost Summary								
1. Is Table VII.E.1 completed and submitted in hard copy and editable electronic format								
2. Is Table VII.E.2 completed and submitted in hard copy and editable electronic format								

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			Y	*N*	*Y*	*N*		
VIII. FINANCIAL ASSURANCE								
A copy of the Financial Assurance Information should be submitted to the Revenue Operation Section, Financial Administration Division.								
Signed statement from an authorized signatory.	305.44							
A. Financial Assurance Information Requirements for all Applicants:	335.179							
Statement to demonstrate that the applicant has sufficient financial resources to operate and close the facility; and information concerning how they intend to obtain financing for construction	305.50(a)(4)							
1. Financial Assurance for Closure	30 TAC Chapter 37, Subchapter P 264.143							
Financial Mechanisms:								
Closure trust fund;	37.6021(b)(1) 264.143(a)							
Surety bond guaranteeing payment into closure trust fund;	37.6021(b)(2) 264.143(b)							

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			Y	*N*	*Y*	*N*		
VIII. FINANCIAL ASSURANCE								
Surety bond guaranteeing performance of closure;	37.6021(b)(3) 264.143(c)							
Irrevocable letter of credit;	37.6021(b)(4) 264.143(d)							
Closure insurance;	37.6021(b)(5) 264.143(e)							
Financial test and corporate guarantee for closure;	37.6021(b)(6-7) 264.143(f)							
Use of multiple financial mechanisms;	264.143(g)							
Use of financial mechanism for multiple facilities.	37.51 264.143(h)							
2. Financial Assurance for Post-closure Care	30 TAC Chapter 37, Subchapter P 264.145							
Financial Mechanisms:								
Post-closure trust fund;	37.6021(b)(1) 264.145(a)							
Surety bond guaranteeing payment into post-closure fund;	37.6021(b)(2) 264.145(b)							
Surety bond guaranteeing performance of post-closure care;	37.6021(b)(3) 264. 145(c)							
Post-closure letter of credit;	37.6021(b)(4) 264.145(d)							
Post-closure insurance;	37.6021(b)(5) 264.145(e)							
Financial test and corporate guarantee for post-closure;	37.6021(b)(6-7) 264.145(f)							
Use of multiple financial mechanisms;	264.145(g)							
Use of financial mechanism for multiple facilities.	37.51 264.145(h)							
3. Financial Assurance for Corrective Action	30 TAC Chapter 37, Subchapter P							
Financial Mechanisms:								
Corrective action trust fund;	37.6021(b)(1)							
Surety bond guaranteeing payment into corrective action fund;	37.6021(b)(2)							
Corrective action letter of credit;	37.6021(b)(4)							
Corrective action insurance;	37.6021(b)(5)							

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			Y	*N*	*Y*	*N*		
VIII. FINANCIAL ASSURANCE								
Financial test and corporate guarantee for corrective action.	37.6021(b) (6-7)							
Use of financial mechanism of for multiple facilities	37.51							
4. Liability Requirements: (Not required for post-closure care)	30 TAC Chapter 37, Subchapter P; 264.147							
Coverage for sudden accidental occurrences;	37.6031(b) 264.147(a)							
Coverage for non-sudden accidental occurrences;	37.6031(c) 264.147(b)							
Requests for variance;	264.147(c)							
Adjustments by the Regional Administrator;	37.411 264.147(d)							
Period of coverage;	264.147(e)							
Financial test;	37.541 264.147(f)							
Guarantee for liability coverage;	37.551 264.147(g)							
Letter of credit;	37.521 264.147(h)							
Surety bond;	37.511 264.147(i)							
Trust fund;	37.501 264.147(j)							
Endorsement or Certification: Has the original Hazardous Waste Facility Endorsement wording pursuant to 264.151(i)(3), or Certificate of Liability wording pursuant to 264.151(j)(4) been submitted?	30 TAC Chapter 37, Subchapter D 264.147(k)							
Use of State-required Mechanisms	264.149							
B. Applicant Financial Disclosure Statements for a new permit, permit amendment, permit modification, or permit renewal	305.50(a)(4)							
Refer to the "Supplemental Technical Information Applications Subject to Financial Capabilities Requirements" included in the Part B Application Section VIII.B.								
1. Has the information required by 30 TAC 305.50(a)(4) been provided?								

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			Y	*N*	*Y*	*N*		
VIII. FINANCIAL ASSURANCE								
2. Is Table VIII.B. submitted in hard copy and electronically (editable) as represented? (Applicable only if facility is requesting capacity expansion, or new construction)								
3. For a new commercial hazardous waste management facility, has a written statement signed by an authorized signatory explaining how the applicant intends to provide emergency response financial assurance been included?	305.44 305.50(a)(12)(C) or (D)							
4. For renewal application with no capacity expansion, has the Financial Disclosure Letter been completed and submitted?								

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			Y	*N*	*Y*	*N*		
IX. RELEASES FROM SOLID WASTE MANAGEMENT UNITS AND CORRECTIVE ACTION								
Status of Correction Action.								
A. Preliminary Review Checklist: Are all Preliminary Review Checklist complete as reported?	335.166-167							
B. Appendices to Preliminary Review								
Appendix I , Facility and SWMU location maps:								
Regional location map;								
Site location map;								
Appendix II, Wastes Managed:								
List of wastes managed;								
40 CFR 261, Appendix VIII hazardous constituents;								
40 CFR 261, Appendix IX hazardous constituents.								
Appendix III, Evidence of Release:								
Documentation of release;								
Map of release locations, SWMU identification and paths traveled;								
Appendix IV, Pollutant Dispersal Pathways:								
Facility, local and regional map identifying eventual pathways of release from unit;								
Facility cross-section, vertical pathways and lateral movements in groundwater.								

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			Y	*N*	*Y*	*N*		
IX. RELEASES FROM SOLID WASTE MANAGEMENT UNITS AND CORRECTIVE ACTION								
C. Preliminary review submittal format. Preliminary review should be bound with a cover page and contain a Table of Contents, etc.								

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
X. AIR EMISSION STANDARDS (Does not apply to post-closure care permits)								
Note: During the administrative review, the reviewer should check to ensure that the tables and certifications are complete before the documents are forwarded to the Air Permits Division.								
A. Process Vents:	335.152(a)(17) 264 subpart AA 270.24							
1. Is Table X.A completed and submitted in hard copy and editable electronic format								
2. Is the certification for organic emissions submitted? Is it signed and dated?								
B. Equipment Leaks:	335.152(a)(18) 264 subpart BB 270.25							
1. Is table X.B completed and submitted in hard copy and editable electronic format								
2. Is the certification for equipment submitted? Is it signed and dated?								
C. Tanks, Surface Impoundments and Containers:	335.152(a)(19) 264 subpart CC 270.27							
1. Is table X.B completed and submitted in hard copy and editable electronic format?								
2. Is the Floating Roof Cover certification completed, signed, dated, and submitted for Tanks?								
3. Is the Floating Membrane Cover certification completed, signed, and submitted for Surface Impoundments?								
4. Is the Container certification completed, signed, dated, and submitted?								
5. Is the Control Device certification completed, signed, dated, and submitted ?								
D. Optional TCEQ Office of Air Quality Information:								
1. Area map to scale;								

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
X. AIR EMISSION STANDARDS (Does not apply to post-closure care permits)								
2. Plot plan to scale;								
3. Is Table X.D.1(a) completed and submitted in hard copy and editable electronic format;								
4. Process description, operating schedule and flow chart;								
5. Design specifications using OAQ table;								
6. VOC concentrations in water, sludge, or soil;								
7. Exhaust stack or emission point parameters;								
8. BACT documentation for new or modified facilities;								
9. Documentation of compliance with NSPS and NESHAPS;								
10. Documentation as to whether a permit is required for new source review by Part C or D of Title I of Clean Air Act;								
11. Demonstration of emission control reliability;								
12. Results of atmospheric dispersion modeling;								
13. Is Table 7 for storage tanks completed and submitted in hard copy and editable electronic format;								
14. Statement addressing OAQ regulations;								
15 All methods of calculating emissions referenced or justified.								
Is Table X.D.7 Completed and submitted in hard copy and editable electronic format?								

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			Y	*N*	*Y*	*N*		
XI. COMPLIANCE PLAN								
If a compliance plan is required, please refer to/use the compliance plan checklist								

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
XII. HAZARDOUS WASTE PERMIT APPLICATION FEE								
Note: During the administrative review, the reviewer should check to ensure that the tables are complete, the fee receipt is received, and that the receipt amount matches the amount on the tables.								

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			Y	*N*	*Y*	*N*		
XII. HAZARDOUS WASTE PERMIT APPLICATION FEE								
Are Tables XII.A and XII.B completed and submitted in hard copy and editable electronic format.								
A. Minimum permit application fee for new permit or renewal is $2,000 and maximum fee is $50,000:	305.53(a)(1)							
1. Process analysis fee: $1,000	305.53(a)(2)(B)							
2. Management/Facility Analysis: $500	305.53(a)(2)(D)							
3. Facility Unit Analysis: $500 per unit:	305.53(a)(2)(C)							
a. Each non-identical cell of landfill: $500;	305.53(a)(3)							
b. Each non-identical CSA or tank: $500	305.53(a)(3)							
c. Identical is defined as: made of same material & design; capacity within ± 10%; stores the same waste; and have same storage management characteristics.	305.53(a)(3)							
4. Site evaluation fee of $100 per acre (maximum of 300 acres)	305.53(a)(2)(A)							
5. Initial application fee for notice: $50	305.53(b)							
Renewal notice fee: $15.	305.53(b)							
B. Application fee for major amendment, Class 2 or Class 3 permit modification for operation, closure, or post-closure:								
1. Management fee: $500								
2. Notice fee: $50								
3. Unit added or unit area expanded: $100 per acre up to 300 acres								
4. $1000 process analysis fee if one or more of the following are added or revised:								
a. Waste analysis plan;								
b. Site-specific or regional geology report;								
c. Site-specific or regional hydrogeologic report;								
d. Groundwater/unsaturated zone monitoring report;								
e. Closure/Post-Closure Plan; or								
f. RFI or corrective action reports.								
5. $500 unit analysis fee if any of the following are requested:								
a. Unit is added;								
b. Design change to an existing unit; or								

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			Y	*N*	*Y*	*N*		
XII. HAZARDOUS WASTE PERMIT APPLICATION FEE								
c. Unit status change from closure to post-closure care.								
C. For a minor amendment, Class 1 or Class 1[1] permit modification: $100 plus a $50 notice fee.								

DESCRIPTION	*HW REGULATION(S)* *(305 & 335 are state & 260 – 270 are federal)*	*NA*	*SUBMITTED*		*TECHNICALLY ADEQUATE*		*LOCATION OF INFORMATION*	*COMMENTS OR VARIANCE*
			Y	*N*	*Y*	*N*		
XIII. CONFIDENTIAL MATERIAL								
If any confidential information given in Sections I through X of the application, that information shall be placed in a separate collective document labeled "CONFIDENTIAL".								